



POINT RUSTON, LLC
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RECEIVED

MAR 8 2014

OFFICE OF
ENVIRONMENTAL CLEANUP

March 15, 2014

Mr. Kevin L. Rochlin
Remedial Project Manager
U.S. Environmental Protection Agency
Region 10
1200 Sixth Avenue, ECL-111
Seattle, WA 98101

RE: Monthly Report: No. 213, February 2014
Operable Unit No. 02 - Asarco Tacoma Smelter Site

Dear Mr. Rochlin:

Point Ruston is submitting this monthly report per the requirements of paragraph 48 of the Consent Decree for the above referenced site. The report is organized to follow item (a) through (g) of this paragraph.

If you have any questions, please call me at (253) 752-2185, extension 236.

Sincerely,

Loren Cohen
Manager of Legal Affairs

Attachment (2 copies)

cc: Peter Striplin - Washington Department of Ecology
Evan Griffiths - CH2MHill (2 copies)
Mike Oelrich – Hydrometrics, Inc.

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Monthly Report 213, February 2014
Operable Unit 02
Asarco Tacoma Smelter Site

A. Actions taken to achieve compliance with the Consent Decree during the previous month.

1. Point Ruston personnel and its contractors continued to implement various components of Remedial Action over the month of February. Point Ruston met with EPA for a coordination meeting on February 21, 2014. Work continued on many various RA tasks, including work associated with the following projects:
 - Phase 1 CMP – O&M
 - Waterwalk CMP – O&M
 - Temporary Cap & Storm Water Management Plan – O&M
 - Sequence of Development Plan & Occupancy Plan – Implementing standards of site occupancy
 - Occupancy Air Monitoring Plan – Daily air monitoring and reporting
 - Long Term OMMP – implementing O&M
 - Metro Parks Peninsula Park CMP – Implementing O&M
 - Phase 2 CMP – On-going construction
2. The Final MICMP Construction Report, submitted to the EPA on August 2, 2013, was approved by EPA on February 18, 2014.
3. On February 25, 2014, the EPA submitted comments on the Draft Peninsula Park Construction Report to Point Ruston. Point Ruston is currently reviewing EPA comments and will submit the Final Peninsula Park Construction Report to EPA in March.
4. Point Ruston continued to conduct on-site and off-site Air Monitoring per the approved air monitoring plan under the CH&SP.
5. Point Ruston continued to conduct weekly inspections and routine maintenance on the TIC and site-wide storm water conveyance system.
6. Point Ruston continued to perform all site maintenance and monitoring, including all requirements under the Site Wide Construction Health and Safety Plan as well as implementation of the OCF OMMP plan. This included collection, sampling and contracting for the hauling of the leachate. O&M also included maintaining clean work areas and roads, fencing and CRZ connections between the site area and phases. O&M inspection reports, conducted weekly, and the associated data is included in the site-inspection reports (See Attached).
7. Point Ruston conducted training activities for site visitors and workers, including the following:
 - Site Safety Orientations (Clean Zone) were held for:
 - i. Fifty-one (51) personnel of various companies
 - HAZWOPER Basic training was verified or completed by personnel of the following companies:
 - i. Two (2) Point Ruston employees
 - ii. Five (5) Trinity Waterproofing employees
 - iii. Two (2) D.M. Kelly employees

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- HAZWOPER annual retraining was verified or completed by personnel of the following companies:
 - i. Two (2) Northwest Lining employees
 - ii. One (1) A.A.R. Testing Laboratory employee
 - iii. One (1) D.M. Kelly employee
- Site Specific Safety Training (Exclusion Zone) was held for personnel of the following companies:
 - i. Six (6) Trinity Waterproofing employees
 - ii. Three (3) Point Ruston employees
 - iii. Three (3) D.M. Kelly employees
- Other relevant monitoring or training was verified or completed by personnel of the following companies:
 - i. Four (4) Point Ruston employees (Medical Surveillance)
 - ii. One (1) Evergreen Excavation employee (Medical Surveillance)

B. *Summary of sampling, tests and all other data received or generated by Point Ruston in the previous month.*

1. Storm water outfall sampling, data and related activities include the following:

Section 2.3 of the Final Statement of Work (SOW) for Remedial Design and Remedial Action – Exhibit F to the Second Amendment requires Point Ruston to continue outfall monitoring. Outfalls will be monitored to determine if the monthly average surface water outfall concentrations for arsenic, copper and zinc exceed 0.5 ppm at the North and South site outfalls until they are abandoned. The South outfall was abandoned on February 15th, 2013.

Weekly composite samples will be collected at each outfall during the construction season. During the winter season, outfall samples will be collected every other month. Asarco began the following schedule in May of 2003, which Point Ruston will continue to implement: weekly composite samples will be collected from April–October, and in December and February.

In addition to the North Outfall, Point Ruston monitors an existing upland station southwest of the Grand Avenue & Ruston Way roundabout. This monitoring station is designated OSW2. Samples were collected by Point Ruston from the outfall locations on February 10th, 17th, 24th and March 3rd. Results from samples collected are attached. There were no exceedances.

2. OCF leachate sampling, data, disposal and related activities include the following:

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Point Ruston collects OCF leachate in a 5,000-gallon polyethylene tank for offsite shipment and disposal. The OCF OMMP requires inspections to correspond with monthly, quarterly, or semi-annual reporting intervals as specified by the Response Action Plan. However, Point Ruston inspects LCRS and LDCRS volumes daily. LCRS volumes currently average approximately 80 gallons per day. Point Ruston currently ships 4,700-5,000 gallons approximately every 50-60 days. Point Ruston shipped 4,800 gallons of leachate (5.47 mg/L arsenic) on February 27th. Sample results are attached.

3. Air Monitoring, sampling, data and related activities include the following:

Point Ruston performs perimeter (off-site) air monitoring for arsenic and lead analysis at two locations: NW corner of OCF and south ridge of OCF (vault #1). Point Ruston also performs occupancy (on-site) air monitoring for arsenic and lead analysis at three additional locations: Lot 4B (nursery), Lot 8 (Phase 2) and Lot 14. Results for samples collected February 3rd through February 23rd are attached. There were no exceedances.

NOTE: Four (4) filters for Lot 8 were collected after a 24-hour sample period during active excavation in waste soils, and submitted for "Rush" analysis to determine if Phase 2 dust control measures are adequate to protect against arsenic and lead exposure levels. Initial "Rush" results in February indicate no significant change in arsenic or lead exposure levels, however conditions have been extremely wet. 24-hour sampling and "Rush" analysis for the Lot 8 monitor location will continue into March during days of active excavation to further establish that Phase 2 dust control measures are adequate.

Point Ruston performs monitoring for total suspended particulates (TSP) with a 24-hour daily average trigger level of 81 $\mu\text{g}/\text{m}^3$. A long-term dust monitoring network consisting of three (3) real-time dust monitors was installed on March 15, 2013. Currently the TSP e-sampling stations are installed in the following locations: Lot 1A, Lot 12 and Lot 2A (roof). The TSP monitors transmit 5-minute average TSP readings to a host computer that logs and calculates the data into 60-minute averages. If 60-minute averages exceed the trigger level the host computer will generate an email and/or text notification to designated personnel who will investigate and take appropriate action. Air monitoring details, including corrective actions, are found in Appendix A of the Development and Occupancy Plan. TSP data is evaluated and recorded daily. Charts showing the average daily TSP and weather data are attached. There were no trigger exceedances in February.

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Point Ruston performs personal air monitoring in accordance with WAC 296-848-20060(1) & WAC 296-155-17609(1) (a) to determine if the airborne concentrations of arsenic and lead exceed the PEL. Personal air monitoring was performed on February 22nd and 23rd during Phase 2 – Lot 1 excavation activities. Activities included: digging and loading with an excavator; hauling and dumping with a haul truck; stock piling with a wheel loader, bulldozer and roller; and staking and grade checking the excavation area. Exposure Evaluation reports and results for samples collected are attached. There were no exceedances.

4. Methane gas monitoring sampling, data and related activities include the following:

Point Ruston performs subsurface methane gas monitoring pursuant to the EPA approved “Building 2B Sampling & Analysis Plan – Subsurface Gas Monitoring Activities” plan. In 2009 a passive gas extraction system was installed in conjunction with the 2B-West building foundation. Four (4) vent pipes were roughed-in through the floor slab. Sampling at these locations has been ongoing, pursuant to ASTM E2600. The Gas Monitoring Data Log and field worksheet for the month of February are attached. No methane has been detected to date. Methane monitoring of the passive extraction system will continue.

5. Point Ruston performs miscellaneous on-site soil sampling related to its various ongoing RA work and development. Analysis results are attached.

- Confirmation sampling was conducted on February 19th from the exposed edge of the multi-layer cap at Lot #1.
- Confirmation sampling was conducted on February 25th from haul roads at Grand Ave. and Main St.

C. *Work Plans and other deliverables completed and submitted during the previous month.*

1. Plans and Documents included the following:

Temporary Cap Plan & Site-Wide Storm Water Plan

EPA issued conditional approval of the TIC Plan on April 22, 2013. Point Ruston addressed EPA comments and resubmitted the As-Builts for the Temporary cap on December 6, 2013. The Temporary Cap As-Builts were approved by the EPA on February 3, 2014 and two hard copies as well as two electronic copies on CD were provided to the EPA by Point Ruston.

Waterwalk CMP

Point Ruston submitted the Draft Construction Report on March 8, 2013. On July 16, 2013 Point Ruston received comments to the Waterwalk RA Draft Construction

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Report. Point Ruston submitted the Final Construction Report to the EPA on January 8, 2014. The Waterwalk RA Final Construction Report was approved by the EPA on February 3, 2014 and two hard copies as well as two electronic copies on CD were provided to the EPA by Point Ruston.

Master Infrastructure CMP (MICMP)

The Final MICMP Construction Report was submitted to the EPA electronically via the Hydrometrics FTP site on August 2, 2013. The Final MICMP Construction Report was approved by EPA on February 18, 2014 and two hard copies as well as two electronic copies on CD were provided to the EPA by Point Ruston.

Operations Maintenance, and Monitoring Plan (OMMP)

The report prepared for the Annual O&M inspection for the MICMP was submitted to the EPA as part of the Point Ruston September 2013 monthly report. Point Ruston is currently tracking O&M of the site-wide RA components using new software that was purchased for this purpose and is currently working to incorporate older inspection reports into the software program.

Sediment Capping RA

Point Ruston and DNR continue to pursue the Consent Decree with the EPA.

Peninsula Park CMP

Point Ruston submitted the Draft Peninsula Park Construction Report to the EPA on November 13, 2013. The EPA submitted comments on the Draft Construction Report to Point Ruston on February 25, 2014. Point Ruston is currently reviewing EPA comments and will submit the Final Peninsula Park Construction Report to EPA in March. Point Ruston has reviewed the City of Ruston comments for Yacht Club Road and is currently working to address those comments.

Stage 1, Phase 2

Construction of the Stage 1 Phase 2 was started in January 2014, with the majority of the work being completed by January 28, 2014. Work was conducted in February to complete the Stage 1 Phase 2 with the construction of the Grand Plaza retaining wall and remainder of the multi-layered cap. The work included in the Stage 1 Phase 2 task was complete on February 28, 2014.

Phase 2 CMP

The installation of site controls (storm water, dust, and air monitoring) started at the end of January, 2014, in preparation for Phase 2 construction activities. Phase 2 construction commenced with removal of the Temporary Cap within the Building 1A footprint on February 3, 2014. Work continues on excavation for the Building 1A foundation. A letter was submitted to EPA on February 3, 2014 to request coordination with the City of Tacoma and City of Ruston on the closure of sidewalks adjacent to the site in accordance with the Phase 2 CMP.

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2. Remedial Action included the following tasks:

OCF RA construction activities:

Maintained leachate collection system; inspected storm drain system, vaults and cover; maintained the temporary storage area related to site-wide grading and Temporary Cap construction.

Phase 1 CMP RA construction activities:

All RA activities are complete, and O&M of the RA components is on-going. Vertical construction of the condominium component of Phase 1 is on-going.

Waterwalk CMP RA construction activities:

O&M activities have been ongoing, and Point Ruston has implemented final punch work associated with City of Tacoma requirements for the Waterwalk.

Temporary Impervious Cap and Construction Storm Water Management Plan RA construction activities:

The TIC has been completed and O&M of the TIC is on-going.

Peninsula Park CMP RA construction activities:

All RA activities are complete, and O&M of the RA components is on-going. A memo describing the Yacht Club Road sidewalk repairs was submitted the EPA February 10, 2014.

- **Site-wide remediation/redevelopment activities:**
 - Continued surface water controls
 - Construction continues on the Phase 2 CMP under the approved Phase 2 CMP
 - Maintained onsite haul roads and stockpiles
 - Maintained erosion and surface water controls; Inspected and repaired silt fence and exclusion zone fencing.
 - Continued site-wide dust monitoring and control through site and access road watering, as needed.
 - Maintained air-monitoring program per CH&SP requirements
 - Continued to maintain Ruston Way Construction Health and Safety protocols, including air monitoring, dust suppression, buffer zone maintenance, fencing and signage.

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D. *Actions scheduled for the next six weeks.*

1. Continue to work with DNR and EPA to ensure finalization of the Consent Decree between the agencies is accomplished in accordance with the terms of the Point Ruston/DNR settlement agreement.
2. Point Ruston to maintain the Ruston Way Health and Safety protocols, including applying tackifier to all buffer areas with exposed soils and continuing to monitor for dust.
3. Point Ruston to continue implementation of the Waterwalk occupancy controls as well as any required O&M.
4. Point Ruston to continue implementation of the Phase 1 (Copperline Apartments) occupancy controls as well as any required O&M.
5. Point Ruston to continue implementation of the Peninsula Park occupancy controls as well as any required O&M.
6. Vertical construction of the 2B condominium is ongoing.
7. Construction of Phase 2 is ongoing. Continue to implement and maintain site controls during RA work.
8. Continue to work through final close-out issues under the Peninsula Park CMP project.
9. Submit the Final Construction Report for the Peninsula Park CMP and finalize RD approvals for the Final Construction Report for Peninsula Park CMP.
10. Continue the O&M and inspections associated with the TIC and site-wide storm water facilities.
11. Continue CH&SP air monitoring during RA activities.
12. Work with EPA to resolve any issues with regard to the installed Biobarrier at existing landscaping.
13. Continue to work on necessary items to close the purchase and sale of the Waterwalk property, per the terms of the agreement with the City of Tacoma.
14. Continue with construction of the Phase 2 CMP.

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The following Remedial Action tasks are planned to continue:

Monitoring:

- a. Outfall sampling (weekly composite samples) during scheduled months
- b. Air monitoring per the Air Monitoring Plan

OCF OMMP activities:

- a. Continue collection of leachate for offsite disposal
- b. Continue monitoring of leachate volumes

Stack Hill activities:

- a. Erosion controls and site maintenance; and maintain roads and landscaping.
- b. Continue sales & marketing efforts from sales office

Site-wide construction activities:

- a. Maintain roads and stockpiles onsite
- b. Maintain erosion controls
- c. Maintain erosion control BMPs and CH&SP standards

Phase 1 CMP

- a. Continue to implement all necessary O&M of the approved Phase 1 area.

Waterwalk CMP

- a. Maintain erosion control BMPs and CH&SP standards as well as conduct all necessary O&M inspections and maintenance.
- b. Monitor the children's playground

Peninsula Park CMP

- a. Maintain erosion control BMPs and CH&SP standards as well as conduct all necessary O&M inspections and maintenance.

Temporary Impervious Cap and Construction Stormwater Management Plan

- a. Continue to monitor the TIC and conduct all necessary O&M inspections and maintenance.

Phase 2 CMP

- a. Maintain site controls and continue excavation of Building 1A.
- b. Install site controls and begin excavation of Buildings 9 and 11, including placement of materials in the Cooling Pond.

E. Percentage completion, unresolved delays encountered or anticipated that may affect schedule, and efforts to mitigate delays.

- Completion of EPA negotiations on RA schedule modifications and associated matters related to the Consent Decree.
- The City of Ruston's interpretation of CECLA Section 121 interferes in Point Ruston's implementation of vital aspects of the on-site remedial action and redevelopment of the former ASARCO smelter site. Point Ruston continues to attempt to work this issue out.

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F. *Modifications to work plans or schedules proposed to or approved by EPA.*

1. The Second Amendment to the Consent Decree was finalized and the sale of the property to Point Ruston LLC completed on October 31, 2006.
2. Point Ruston and EPA agreed to begin final negotiations of a Consent Decree amendment to include updates to the SOW Schedule. Discussions are on-going. Point Ruston has entered into tolling agreements with the Department of Justice in order to facilitate negotiations over this extension and other related aspects of the Consent Decree.

G. *Activities undertaken to support Community Relations Plan during the previous month and planned for the next four weeks.*

1. Point Ruston continues to work in conjunction with staff from the Town of Ruston and City of Tacoma regarding development plans which incorporate remediation components for the site, including operation, maintenance, and monitoring issues at the site.
2. Point Ruston continues to meet with the Town of Ruston, City of Tacoma and Metro Parks to address operation, maintenance, and monitoring issues at the site, including the Waterwalk area which ultimately will be sold to the City of Tacoma and maintained under contract by Metro Parks Tacoma.

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**WEEKLY
 SITE
 INSPECTION
 REPORTS**

Reference	Date	Description
GEN2014-0202	02/02 – 02/08	General Site Weekly Inspection Report
P1CMP2014-0202	02/02 – 02/08	Phase 1 Const. Mgmt. Plan Weekly Inspection Report
P2CMP2014-0202	02/02 – 02/08	Phase 2 Const. Mgmt. Plan Weekly Inspection Report
MICMP2014-0202	02/02 – 02/08	Streets / MICMP Weekly Inspection Report
TIC2014-0202	02/02 – 02/08	Temporary Impermeable Cap Weekly Inspection Report
WW2014-0202	02/02 – 02/08	Waterwalk Weekly Inspection Report
PEN2014-0202	02/02 – 02/08	Peninsula Weekly Inspection Report
GEN2014-0209	02/09 – 02/15	General Site Weekly Inspection Report
P1CMP2014-0209	02/09 – 02/15	Phase 1 Const. Mgmt. Plan Weekly Inspection Report
P2CMP2014-0209	02/09 – 02/15	Phase 2 Const. Mgmt. Plan Weekly Inspection Report
MICMP2014-0209	02/09 – 02/15	Streets / MICMP Weekly Inspection Report
TIC2014-0209	02/09 – 02/15	Temporary Impermeable Cap Weekly Inspection Report
WW2014-0209	02/09 – 02/15	Waterwalk Weekly Inspection Report
PEN2014-0209	02/09 – 02/15	Peninsula Weekly Inspection Report
GEN2014-0216	02/16 – 02/22	General Site Weekly Inspection Report
P1CMP2014-0216	02/16 – 02/22	Phase 1 Const. Mgmt. Plan Weekly Inspection Report
P2CMP2014-0216	02/16 – 02/22	Phase 2 Const. Mgmt. Plan Weekly Inspection Report
MICMP2014-0216	02/16 – 02/22	Streets / MICMP Weekly Inspection Report
TIC2014-0216	02/16 – 02/22	Temporary Impermeable Cap Weekly Inspection Report
WW2014-0216	02/16 – 02/22	Waterwalk Weekly Inspection Report
PEN2014-0216	02/16 – 02/22	Peninsula Weekly Inspection Report
GEN2014-0223	02/22 – 03/01	General Site Weekly Inspection Report
P1CMP2014-0223	02/23 – 03/01	Phase 1 Const. Mgmt. Plan Weekly Inspection Report
P2CMP2014-0223	02/23 – 03/01	Phase 2 Const. Mgmt. Plan Weekly Inspection Report
MICMP2014-0223	02/23 – 03/01	Streets / MICMP Weekly Inspection Report
TIC2014-0223	02/23 – 03/01	Temporary Impermeable Cap Weekly Inspection Report
WW2014-0223	02/23 – 03/01	Waterwalk Weekly Inspection Report
PEN2014-0223	02/23 – 03/01	Peninsula Weekly Inspection Report
First Monthly Reports Generated From Operations & Maintenance Database		
P1CMP2014-02	02/01 – 02/28	Phase 1 CMP – Completed Service Report for February
TIC2014-02	02/01 – 02/28	TIC CMP – Completed Service Report for February



GENERAL SITE

Weekly Site Inspection Report No. GEN 2014-0202

Week of: 02/02 - 02/08, 2014 Inspector: Tim RUSHER

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION (✓ CHECK ONE)			NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
Gates:	Good	Fair	Poor	Yes	No	(See "Streets" Report for additional gates)
Grand Ave (electric)	✓				✓	
54 th Street (electric)	✓				✓	
Bennett St (2 old single)	✓				✓	
Bennett St (old double)	✓				✓	
52 nd Street (temp panel)	✓				✓	
Signage:	Good	Fair	Poor	Yes	No	
Gates	✓				✓	
Perimeter	✓				✓	
Safety	✓				✓	
Security:	Good	Fair	Poor	Yes	No	
Locks	✓				✓	
Alarms	✓				✓	
Cameras		✓			✓	
BMPs:	Good	Fair	Poor	Yes	No	
Silt Fence	✓				✓	Stack 1/2
Wattles	✓				✓	Stack 1/2
(Other)						
Nursery:	Good	Fair	Poor	Yes	No	
Plants	✓				✓	
Sprinkler	✓				✓	OFF For Season
Weeds	✓				✓	
Stockpiles:	Good	Fair	Poor	Yes	No	
Plastic	✓				✓	
Packed	✓				✓	
Dust:	Good	Fair	Poor	Yes	No	OFF-SITE DUST FROM CUTTING BRICK Pavers 2/7
Traffic areas	✓				✓	
Excavation area	✓				✓	
Fencing:	Good	Fair	Poor	Yes	No	
Site Perimeter	✓				✓	
Zone Separation	✓				✓	
CRZs:	Good	Fair	Poor	Yes	No	
PHASE 2	✓				✓	
Boot Washes	✓				✓	
Haul Roads:	Good	Fair	Poor	Yes	No	
Main Street (east)	✓				✓	
Main Street (west)	✓				✓	
Grand Ave.	✓				✓	
MMZ area (Lot 15)	✓				✓	

GENERAL SITE - Weekly Site Inspection Report No. GEN 2014-0282
 Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Misc. notes: REPRIMANDED SEVERAL WORKERS THAT THOUGHT PPE WASN'T NECESSARY ON WEEKENDS (HARD HATS).

Air Monitoring:

Day of Week	Hi-Vol QTY	Real Time	24-hr Avg $\mu\text{g}/\text{m}^3$	Personal QTY	Portable QTY	Air Monitoring Notes
Sun	2 5 3	12.1	Ø Ø	No SITE ACTIVITY / WET SOIL CONDITIONS		
Mon	3 5 3	1.5	Ø Ø	REMOVE T.I.C LAYER FROM LOT #1	POUR ADDITIONAL RETAINING WALL FOOTING @ PLAZA	
Tue	4 5 3	3.1	Ø Ø	SET REBAR + FORMS FOR PLAZA RETAINING WALL	FINISH T.I.C #1	REMOVAL ON LOT 1
Wed	5 5 3	1.7	Ø Ø	START EXCAVATION ON LOT #1	FORMING PLAZA RETAINING WALL	
Thu	6 5 3	1.7	Ø Ø	SITE MAINTENANCE	FORMING FOR PLAZA RETAINING WALL	
Fri	7 5 3	6.Ø Ø	Ø Ø	FORM + SET REBAR FOR PLAZA WALL	CUT + REMOVED BRICKS / S. SIDE OF GRAND FOR PLAZA WALL FROM RUSTON SIDE OF PLANTER ON	REPLACE WIBARK
Sat	8 5 3	2.1	Ø Ø	NO SITE ACTIVITY		

WEATHER:

Day of Week	Summary of Weather Conditions						
	TEMPERATURE (F)		WIND (MPH)		RAIN (INCHES)	OTHER	
LOW	HIGH	DIRECTION	AVERAGE	GUST			
Sun	23	49	ENE	3	1Ø Ø	Cloudy w/SUN BREAKS (LATE MORNING 106)	
Mon	33	43	NNE	5	14 Ø	PARTLY CLOUDY	
Tue	28	30	NE	6	18 Ø	COLD DRY / MOSTLY CLOUDY	
Wed	22	32	NE	8	22 Ø	COLD WINDY	
Thu	22	29	NE	7	20 Ø	MOSTLY CLOUDY / OVERCAST	
Fri	20	38	NE	4	19 Ø	MORNING CLOUDS / AFTERNOON CLEARINGS	
Sat	30	41	NE	7	20 Ø	CLOUDY w/SNOW	

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 02/10/2014 SIGNED: 

H&S OFFICER: DATE: 2/10/14 SIGNED: 





PHASE 1 CMP

Weekly Site Inspection Report No.

P1CMP 2014-0202

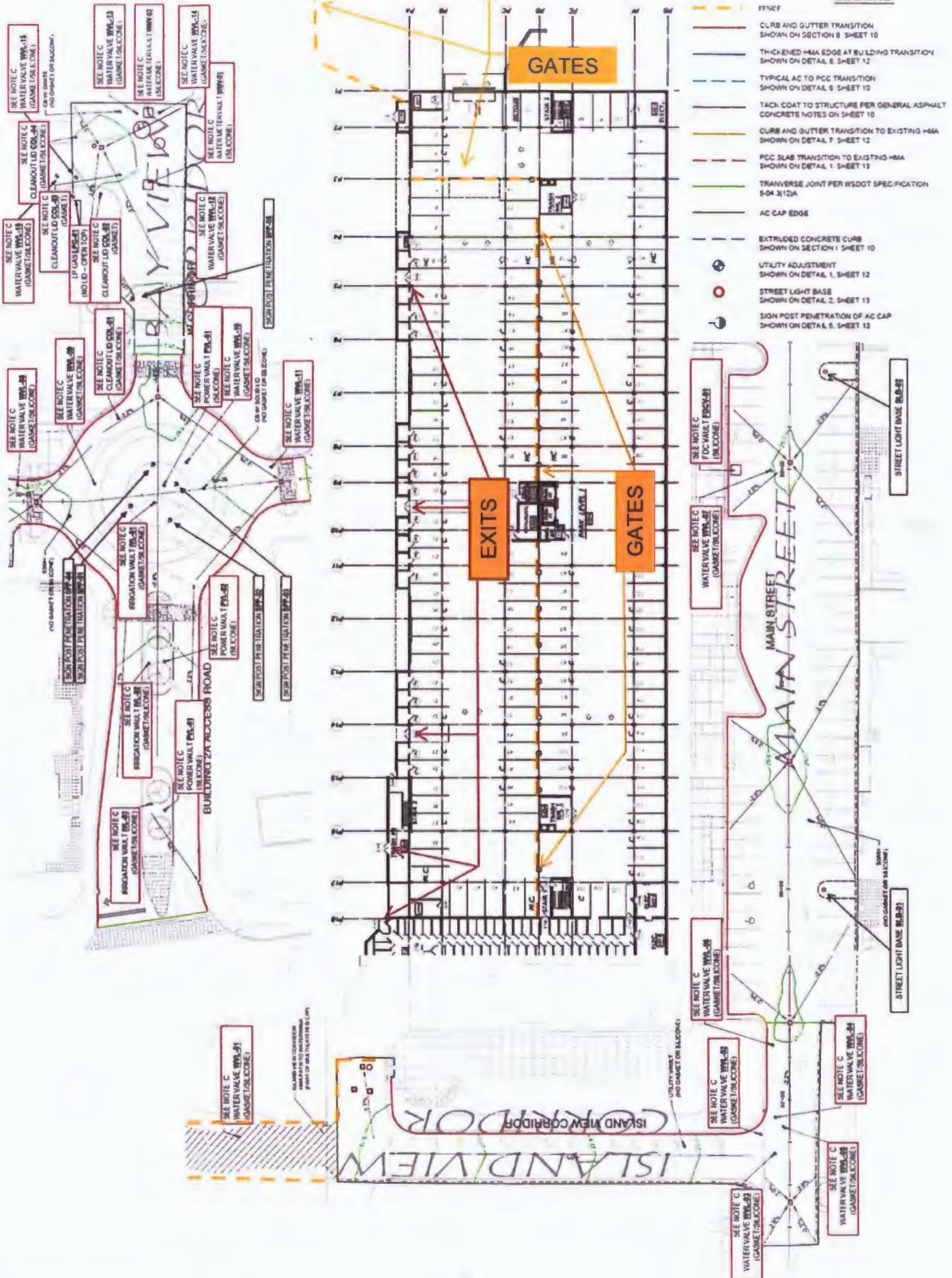
Week of: 212-218, 2014

Inspector: Pat Wilber

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			CLEAN?		NEED REPAIR?		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	Yes	No	
Gates								(EPA Requires all gates to remain closed & locked)
Main Street – (East)	✓			✓			✓	
Main Street – (West)	✓			✓			✓	
Bay View – (Lot 3)	✓			✓			✓	
Bldg 2BE – (Electric)	✓			✓			✓	
Bldg 2A-P1 – (Parking)	✓			✓			✓	
Bldg 2A-P1 – (3 single)	✓			✓			✓	
Sign Post Penetrations	Good	Fair	Poor	Yes	No	Yes	No	
SPP-01 (roundabout)	✓			✓			✓	
SPP-02 (roundabout)	✓			✓			✓	
SPP-03 (roundabout)	✓			✓			✓	
SPP-04 (roundabout)	✓			✓			✓	
SPP-05 (Ramp to P1)	✓			✓			✓	
Street Light Base	Good	Fair	Poor	Yes	No	Yes	No	
SLB-01 (NW)	✓			✓			✓	
SLB-02 (SW)	✓			✓			✓	
Water Meter Vaults	Good	Fair	Poor	Yes	No	Yes	No	(WMV - outer SILICONE only)
WMV-01	✓			✓			✓	
WMV-02	✓			✓		✓		recent - city of tacoma opened
Water Valve Lids	Good	Fair	Poor	Yes	No	Yes	No	(WVL - inner GASKET and outer SILICONE)
WVL-01	✓			✓		✓		recent - " "
WVL-02	✓			✓			✓	
WVL-03	✓			✓			✓	
WVL-04	✓			✓			✓	
WVL-05	✓			✓			✓	
WVL-06	✓			✓			✓	
WVL-07	✓			✓			✓	
WVL-08	✓			✓		✓		recent - city of tacoma opened
WVL-09	✓			✓		✓		
WVL-10	✓			✓		✓		recent - "
WVL-11	✓			✓			✓	
WVL-12	✓			✓			✓	
WVL-13	✓			✓		✓		recent - "
WVL-14	✓			✓		✓		recent - "
WVL-15	✓			✓			✓	
WVL-16	✓			✓			✓	(located in unfinished area between 2A & 2BE)
FDC Vault	Good	Fair	Poor	Yes	No	Yes	No	(FDCV - outer SILICONE only)
FDCV-01	✓			✓		✓		
Irrigation Vault Lids	Good	Fair	Poor	Yes	No	Yes	No	(IVL - inner GASKET and outer SILICONE)
IVL-01	✓			✓			✓	
IVL-02	✓			✓			✓	
IVL-03	✓			✓			✓	

(LOCATION LAYOUT ON REVERSE)



PHASE 1 CMP - Weekly Site Inspection Report No. P1CMP 2014-0202
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			CLEAN?		NEED REPAIR?		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	Yes	No	
Power Vault Lids PVL-01 PVL-02 PVL-03	✓			✓			✓	(PVL - outer SILICONE only)
	✓			✓			✓	
	✓			✓			✓	
Propane Conduit LPG-01	Good	Fair	Poor	Yes	No	Yes	No	
	✓			✓			✓	
Clean Out Lids COL-01 COL-02 COL-03 COL-04	Good	Fair	Poor	Yes	No	Yes	No	(COL - inner GASKET and outer SILICONE)
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
Other Features Curb & Gutter Trans. Thickened HMA Edge AC to PCC Trans. PCC Slab to HMA Trans. WSDOT Transverse Joint	Good	Fair	Poor	Yes	No	Yes	No	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
Misc Extruded Curb AC Cap Edge Interior Fence (P1) Exterior Fence EPA Signage	Good	Fair	Poor	Yes	No	Yes	No	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	

Misc. notes:

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 7/16/14 SIGNED: J. M. Anderson

REVIEWED: DATE: 2/16/14 SIGNED: [Signature]



2014/02/03

Building 2BE Progress



2014/02/03

P1CMP2014-0202



2014/02/06

2BE Progress



2014/02/06

P1CMP2014-0202



P1CMP2014-0202



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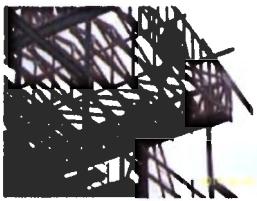


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P1CMP2014-0202



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P1CMP2014-0202



(WEEKLY)

PHASE 2

Entered A.M. Scanned

Weekly Site Inspection Report No. P2CMP2014- 0202

Week of: 2/2 - 2/8, 2014 Inspector: Tim RUSHER, SR.

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION (✓ CHECK ONE)			NEED REPAIR? (✓ CHECK ONE)	COMMENTS/OBSERVATIONS
	Good	Fair	Poor		
Air Monitors:				Yes	No
Hi-Vol Lot 1	✓				✓
TSP (ES1)	✓				✓
TSP (ES2) 2A roof	✓				✓
Personal Air Monitoring					✓ N/A
Signage:	Good	Fair	Poor	Yes	No
Gates	✓				✓
Perimeter	✓				✓
Safety	✓				✓
Security:	Good	Fair	Poor	Yes	No
Locks	✓				✓
Alarms					
Cameras					
BMPs:	Good	Fair	Poor	Yes	No
Tackifier	✓				✓ Applied As Needed
Silt Fence					N/A
Wattles					N/A
(Other)	✓				✓ Sumps
Fencing:	Good	Fair	Poor	Yes	No
6' Security Fence	✓				✓
Wind Fence	✓				✓ Repairing As Needed Daily
Exclusion Zone	✓				✓
CRZ Gate Lock	✓				✓
Stockpiles:	Good	Fair	Poor	Yes	No
Plastic					
Packed	✓				✓
Dust:	Good	Fair	Poor	Yes	No
Traffic areas					
Excavation area					
(Other)					
Personnel:	Good	Fair	Poor	Yes	No
Properly Trained	✓				✓
Coveralls	✓				✓
Hard Hats	✓				✓
ID Badges	✓				✓
(Other)					

PHASE 2 CMP - Weekly Site Inspection Report No. P2CMP2014- Ø2Ø2
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION (✓ CHECK ONE)			NEED REPAIR? (✓ CHECK ONE)	COMMENTS/OBSERVATIONS
	Good	Fair	Poor		
CRZs:					
Sign(s)	✓			✓	
Water Truck	✓			✓	
Flat Shovel	✓			✓	
Wisk Broom		✓	✓		UNABLE TO LOCATE
Boot Brush	✓			✓	
Boot Washes	✓			✓	
Cobble Ballast	✓			✓	
Drainage (Other)	✓			✓	
Haul Roads:	Good	Fair	Poor	Yes	No
Grand Ave.					
(Other)					

Misc. notes: (See Daily Inspection Checklists Attached)

- ◆ CONSTRUCTION OFFICE DELIVERED ON 2/5/14.
- ◆ CONTINUED REMOVAL OF T.I.C. LINER ON LOT #1, + STARTED REMOVAL ON PART OF LOT #18 AT GRAND PLAZA.
- ◆ Poured CONCRETE FOOTING FOR PLAZA WALL EXTENSION.

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 2/8/14 SIGNED: 

H&S OFFICER: DATE: 2/8/14 SIGNED: 



(DAILY)

PHASE 2 CMP

Informal Daily Inspection Checklist No. P2CMP(D)2014-020

(MM)

(DD)

Date: 02 05, 2014

Inspector: Henry J. Shumate

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	CHECKED (✓ CHECK ONE)		NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Yes	No	Yes	No	
Air Monitors	/	/	/	/	
Lunch Room	/	/	/	/	
Coverall Room	/	/	/	/	
First Aid	/	/	/	/	
Fire Extinguishers	/	/	/	/	
Signage	✓	/	/	/	Pistol RESTRICTED AREA signs
Tackifier	/	/	/	/	
Security Fence	/	/	/	/	
Wind Fence	/	/	/	/	
E.Z. Fence	/	/	/	/	
Stockpiles	/	/	/	/	
Dust	/	/	/	/	
CRZs	/	/	/	/	
Haul Roads	/	/	/	/	
Building Materials	/	/	/	/	
Boot Washes	Qty. in use 7				
Hand Wash	Qty. in use 1				
Porta Potties	Qty. in use 2				
Personnel	Company:	Number of Workers	COMMENTS/OBSERVATIONS		
	P.R.	8	-----		
	Azure Green	2	-----		
	Evergreen	4	-----		
	LM2H	1	-----		
	E.I. G&V	1	-----		
	HYDROMET	1	-----		

Misc. notes: ~~Open Tank Construction (-1), T.I.C. Removal~~
 Lot # 111
 - CONSTRUCTION OFFICE TRAILER DELIVERED

INSPECTOR: DATE: 2-05-2014

SIGNED: Henry J. Shumate



(DAILY)

PHASE 2 CMP

Informal Daily Inspection Checklist No. P2CMP(D)2014-0204

Date: 2 / 4 , 2014

Inspector: Pat Wilber

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	CHECKED (✓ CHECK ONE)		NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Yes	No	Yes	No	
Air Monitors	✓			✓	
Lunch Room	✓			✓	
Coverall Room	✓			✓	
First Aid	✓			✓	
Fire Extinguishers	✓			✓	
Signage	✓			✓	
Tackifier	✓			✓	100% applied 2/4 pm to 14:45 plots return
Security Fence	✓			✓	
Wind Fence	✓			✓	
E.Z. Fence	✓			✓	
Stockpiles	✓			✓	
Dust	✓			✓	water haul roads 3pm/4pm
CRZs	✓			✓	
Haul Roads	✓			✓	
Building Materials	✓			✓	
Boot Washes	Qty. in use 				
Hand Wash	Qty. in use 				
Porta Potties	Qty. in use N/11				
Personnel	Company:	Number of Workers		COMMENTS/OBSERVATIONS	
	mc	5			
	evergreen	4			
	EM/gumright	1			
	hydrometrical	1			
	turlock	6			

Misc. notes:

INSPECTOR: DATE: Pat Wilber 2/4/13 SIGNED: Bob Johnson



(DAILY)

PHASE 2 CMP

Informal Daily Inspection Checklist No. P2CMP(D)2014-0206

Date: 02 106, 2014

Inspector: Harry Schweitzer

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	CHECKED (✓ CHECK ONE)		NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Yes	No	Yes	No	
Air Monitors	✓			✓	
Lunch Room	✓			✓	
Coverall Room	✓		✓		Fully Stocked Site Crew/Subs
First Aid	✓		✓		
Fire Extinguishers	✓		✓		
Signage	✓		✓		
Tackifier	✓		✓		
Security Fence	✓		✓		
Wind Fence	✓		✓		
E.Z. Fence	✓		✓		Repairs were made
Stockpiles	✓		✓		
Dust	✓		✓		
CRZs	✓		✓		
Haul Roads	✓		✓		
Building Materials	✓		✓		
Boot Washes	Qty. in use <u>5</u>	✓		✓	
Hand Wash	Qty. in use <u>1</u>	✓		✓	
Porta Potties	Qty. in use <u>2</u>	✓		✓	
Personnel	Company:	Number of Workers		COMMENTS/OBSERVATIONS	
	P.R.	<u>7</u>			
	E.I.GOV	<u>1</u>			
	Eva Green	<u>1</u>			
	Ser. Consts	<u>3</u>			

Misc. notes:

INSPECTOR: DATE: 2/6/2014

SIGNED: Harry J. Schweitzer



(DAILY)

PHASE 2 CMP

Informal Daily Inspection Checklist No. P2CMP(D)2014

(MM)

(DD)

Date: 02 107, 2014

Inspector: Harry Shugart

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	CHECKED (✓ CHECK ONE)		NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Yes	No	Yes	No	
Air Monitors	✓			✓	Moved to S.W corner of Lot # 1 (2/6) ESI
Lunch Room	✓			✓	
Coverall Room	✓			✓	
First Aid	✓			✓	
Fire Extinguishers	✓			✓	
Signage	✓			✓	
Tackifier					
Security Fence	✓			✓	Locked / Secured 2pm
Wind Fence	✓			✓	Repairs made by site crew
E.Z. Fence	✓			✓	
Stockpiles	✓			✓	
Dust	✓			✓	
CRZs	✓			✓	
Haul Roads	✓			✓	
Building Materials	✓			✓	
Boot Washes	6	-		✓	
Hand Wash	1	-		✓	
Porta Potties	2	-		✓	Serviced today 12:30pm
Personnel	Company:	Number of Workers	COMMENTS/OBSERVATIONS		
	EPA/NR	5			
	E.I Gov	1			
	RR	7			

Misc. notes:



Phase 2 - Stage 1 Progress
2nd pour for retaining wall footing



P2CMP2014-0202



02/04/2014

Lot #1 T.I.C. Removal Progress



02/04/2014

P2CMP2014-0202



02/05/2014



02/05/2014

Phase 2 Remedial Action; Sequence B - Building 1



02/05/2014



02/05/2014

P2CMP2014-0202



Phase 2 Remedial Action; Sequence B - Building 1



P2CMP2014-0202



02/05/2014

Dust Control
Applying Tackifier



02/05/2014

P2CMP2014-0202



02/05/2014

Lot #18 TIC Removal (partial)



02/05/2014

P2CMP2014-0202



2014/02/05

Lot #18 TIC Removal (partial)



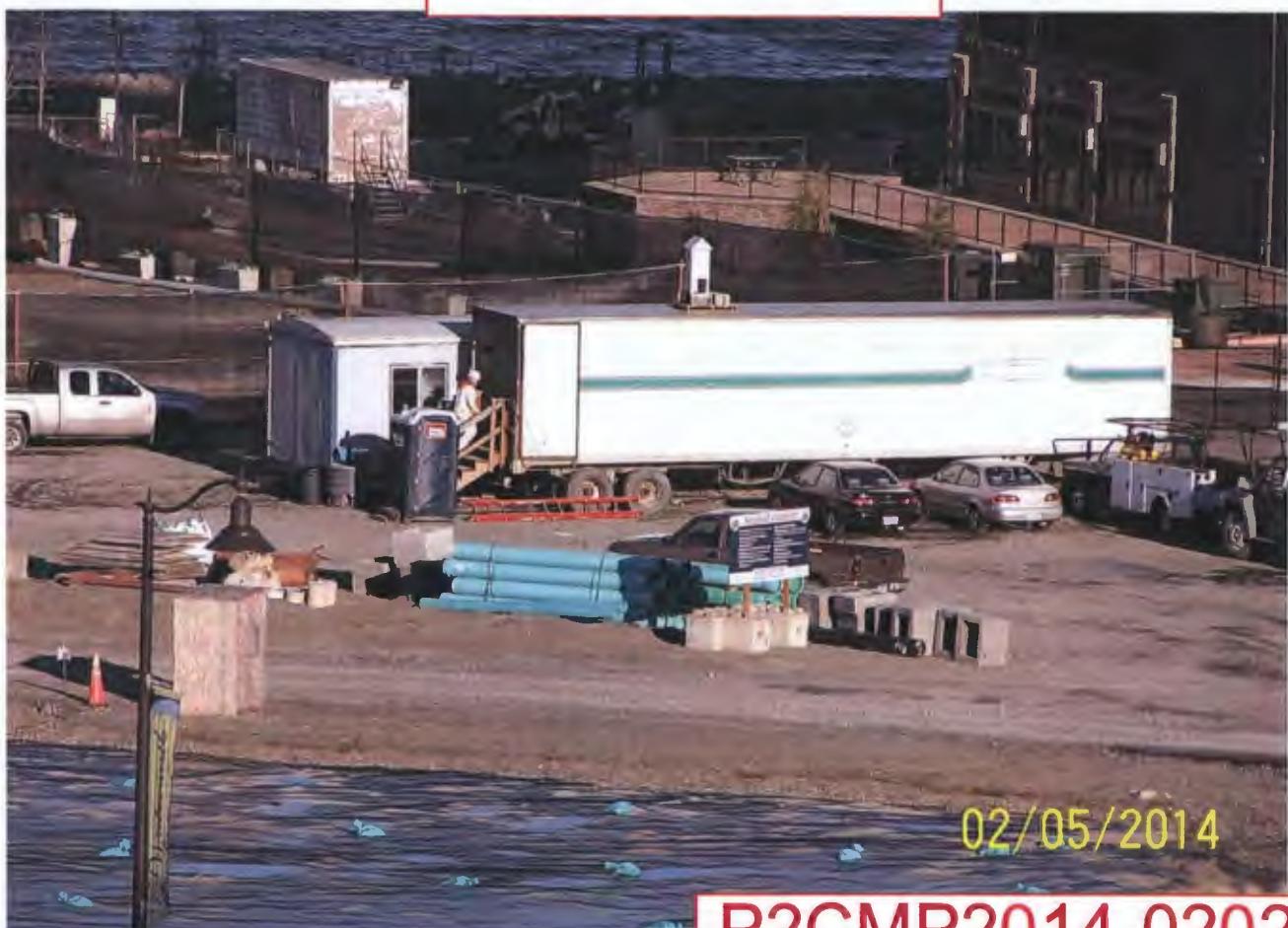
2014/02/05

P2CMP2014-0202



02/05/2014

New Job Trailer



02/05/2014

P2CMP2014-0202

ES2 TSP Dust Monitor



ES1 TSP Dust Monitor
Weather Station
Data Logger

02/06/2014

P2CMP2014-0202



2014/02/06

2BE Progress



2014/02/06

P2CMP2014-0202



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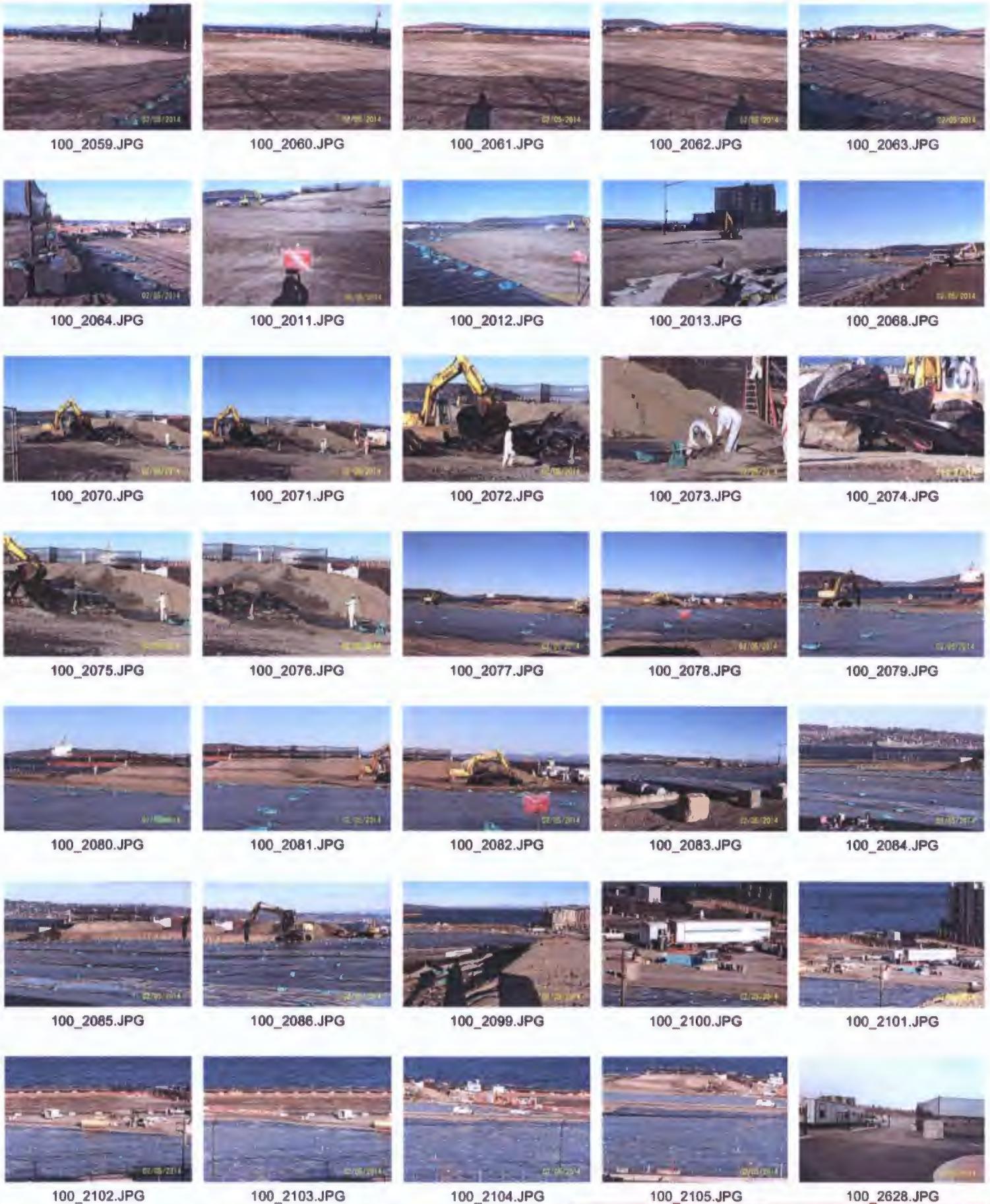


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P2CMP2014-0202



STREETS / MICMP

Weekly Site Inspection Report No. MICMP 2014-0202

Week of: 02/02 - 02/08, 2014 Inspector: Harry Sprague Jr.

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION (✓ CHECK ONE)			NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
Streets:	Good	Fair	Poor	Yes	No	
Surface	/			/		
Paint	/			/		
Splitter Islands	/			/		
Barricades	/			/		
Signage:	Good	Fair	Poor	Yes	No	
Trespass	/			/		
Advisory	/			/		
Traffic	/			/		
Marketing	/			/		
Development Sign	/			/		
Public Notice	/			/		
Street Lights:	Good	Fair	Poor	Yes	No	
Ruston Way	/			/		
51st Street	/			/		
Baltimore	/			/		
Court	/			/		
Commercial	/			/		
Villard	/			/		
Yacht Club	/			/		
Junction Boxes	/			/		
Storm Drains:	Good	Fair	Poor	Yes	No	
Curb/Gutter	/			/		
CBs	/			/		See Notes
Filterras	/			/		
Sidewalks:	Good	Fair	Poor	Yes	No	
Concrete	/			/		See Notes
Paint	/			/		
Crossings	/			/		
Warning Strips	/			/		
Bollards	/			/		
Landscaping:	Good	Fair	Poor	Yes	No	SEE NOTES About Root BARRIER
Trees	/			/		
Plants	/			/		
Sprinkler	/			/		
Bark/Mulch	/			/		
Roundabouts:	Good	Fair	Poor	Yes	No	
Grand	/			/		
Yacht Club	/			/		

STREETS - Weekly Site Inspection Report No.

MICMP 2014-

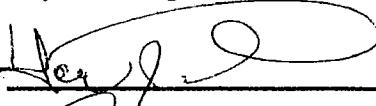
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION (✓ CHECK ONE)			NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	
Features:						
Wall/Rail (Other)	✓				✓	
Gates:	Good	Fair	Poor	Yes	No	
51 st St – (Pond)	✓				✓	
Roundabout – (Pond)	✓				✓	
Roundabout – (Lot 12)	✓				✓	
Roundabout – (Lot 10)	✓				✓	
Ruston Way – (Lot 10)	✓				✓	
BNSF Access	✓				✓	
OSW02 - (Ruston)	✓				✓	
52 nd – (OCF Vault 2)	✓				✓	
Yacht Club - (Cascade)	✓				✓	
Yacht Club – (Vault)	✓				✓	
Yacht Club – (Lot 11)	✓				✓	
Yacht Club – (Lot 14)	✓				✓	
Yacht Club – (MMZ)	✓				✓	
Other:	Good	Fair	Poor	Yes	No	
Jersey Barriers	✓				✓	
Baltimore Bridge	✓				✓	
Yacht Club – Steep Slope (Other)						

Misc. notes: Sidewalks; CRACKS, chips; Ruston way
Catch Basin; corner of Villard & Court

◆ Topic Of Root Barriers Was Discussed. Are They Required In Roundabouts? Were They Installed?

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 2/15/2014 SIGNED: 

REVIEWED: DATE: 2/18/14 SIGNED: 



MICMP2014-0202



TEMPORARY IMPERMEABLE CAP

Weekly Site Inspection Report No. TIC 2014-0202

Week of: 212 - 218, 2014 Inspector: Pat Wilder

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			CLEAN?		NEED REPAIR?		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	Yes	No	
Lot 1 Geomembrane (03/10/13) Sand Bag Cover (07/10/13) Anchor Edge Berm Drainage Other _____	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
Lot 3 Geomembrane (03/04/13) Sand Bag Cover (07/02/13) Anchor Edge Berm Drainage Other _____	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
Lot 4 Geomembrane (12/11/12) Sand Bag Cover (07/02/13) Anchor Edge Berm Drainage Patch (1: 05/15/13) Other _____	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	photos taken
Lot 5 (02/11/13) / 6 (01/17/13) Geomembrane Sand Bag Cover (07/02/13) Anchor Edge Berm Drainage Patches (2:05/10/13;1:06/12/13) Other _____	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	photos taken
Lot 7 Geomembrane (01/03/13) Sand Bag Cover (07/10/13) Anchor Edge Berm Drainage Other _____	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
Lot 9/11 Geomembrane (04/05/13) Sand Bag Cover (07/05/13) Anchor Edge Berm Drainage Other _____	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	

TEMPORARY CAP - Weekly Site Inspection Report No. TIC 2014-0202
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			CLEAN?	NEED REPAIR?		COMMENTS/OBSERVATIONS
	Good	Fair	Poor		Yes	No	
Lot 12 Geomembrane (04/23/13) Sand Bag Cover (07/10/13) Anchor Edge Berm Drainage Other _____	Good	Fair	Poor	Yes	No	Yes	No
	✓			✓		✓	
	✓			✓		✓	
	✓			✓		✓	
	✓			✓		✓	
Lot 14 Geomembrane (10/17/13) Sand Bag Cover (10/18/13) Anchor Edge Berm (10/22/13) Drainage Block Wall	Good	Fair	Poor	Yes	No	Yes	No
	✓			✓		✓	
	✓			✓		✓	
	✓			✓		✓	
	✓			✓		✓	
	✓			✓		✓	
Lot 16 Geomembrane (04/16/13) Sand Bag Cover (12/05/13) Anchor Edge Berm Drainage Other _____	Good	Fair	Poor	Yes	No	Yes	No
	✓			✓		✓	
	✓			✓		✓	
	✓			✓		✓	
	✓			✓		✓	
Lot 17/18 Geomembrane (04/13/13) Sand Bag Cover (07/09/13) Anchor Edge Berm Drainage Other _____	Good	Fair	Poor	Yes	No	Yes	No
	✓			✓		✓	
	✓			✓		✓	
	✓			✓		✓	
	✓			✓		✓	
MMZ (Lot 15) Gravel Stock Pile Sand Bags On Hand T.I.C. Repair Kit Other _____	Good	Fair	Poor	Yes	No	Yes	No
	✓			✓		✓	
	✓			✓		✓	
	✓			✓		✓	

Misc. notes:

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 2/4/14 SIGNED: Beth Scher

REVIEWED: DATE: 2/10/14 SIGNED: [Signature]



TIC 6
02/04/2014



TIC 4
02/04/2014

Status of liner patches



TIC 6
02/04/2014



TIC 5
02/04/2014

TIC2014-0202



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TIC2014-0202



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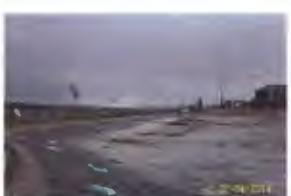
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TIC2014-0202



WATERWALK

Weekly Site Inspection Report No. WW 2014-0202

Week of: 02/02 - 02/08, 2014 Inspector: Harry Slaughter

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION (✓ CHECK ONE)			NEED REPAIR? (✓ CHECK ONE)	COMMENTS/OBSERVATIONS
Paths:	Good	Fair	Poor	Yes	No
Asphalt	/	/	/	/	
Gravel	/	/	/	/	
Trail to M.P.	/	/	/	/	
Signage:	Good	Fair	Poor	Yes	No
Perimeter/Trespass	/	/	/	/	
Perimeter/"No Access"	/	/	/	/	
Park Rules (Other)	/	/	/	/	Water Walk Closure
Street Lights:	Good	Fair	Poor	Yes	No
Junction Boxes	/	/	/	/	(4) piles left by Sub
Poles	/	/	/	/	
Bulbs	/	/	/	/	
Banners	/	/	/	/	
Storm Drains:	Good	Fair	Poor	Yes	No
Area Drains	/	/	/	/	
Clean Outs	/	/	/	/	
Octopus:	Good	Fair	Poor	Yes	No
Tile	/	/	/	/	Needs Cleaning
Grout	/	/	/	/	
Paint	/	/	/	/	Touch-up
Intersection #1:	Good	Fair	Poor	Yes	No
Tile	/	/	/	/	Stains; Needs Cleaning
Grout	/	/	/	/	
Paint	/	/	/	/	Touch-up
Intersection #2:	Good	Fair	Poor	Yes	No
Tile	/	/	/	/	Needs Cleaning
Grout	/	/	/	/	
Paint	/	/	/	/	Touch-up
Intersection #3:	Good	Fair	Poor	Yes	No
Tile	/	/	/	/	Needs Cleaning
Grout	/	/	/	/	
Paint	/	/	/	/	CRACKS, CHIPS, Touch-up
Intersection #4:	Good	Fair	Poor	Yes	No
Tile	/	/	/	/	CRACKS, CHIPS
Grout	/	/	/	/	
Sprinkler:	Good	Fair	Poor	Yes	No
Heads	/	/	/	/	
Valve Boxes	/	/	/	/	

WATERWALK - Weekly Site Inspection Report No. WW 2014-1/20

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION (✓ CHECK ONE)			NEED REPAIR? (✓ CHECK ONE)	COMMENTS/OBSERVATIONS
	Good	Fair	Poor		
Landscaping:					
Trees	✓			✓	
Plants	✓			✓	
Grass	✓			✓	
Bark/Mulch	✓			✓	
Hardware:	Good	Fair	Poor	Yes	No
Cleat Benches	✓			✓	
Metal Benches	✓			✓	
Tables	✓			✓	
Trash Cans	✓			✓	
Gates:	Good	Fair	Poor	Yes	No
Ferry – Struts	✓			✓	
TIC – Lots 3/4	✓			✓	
Intersection #1	✓			✓	
Intersection #2	✓			✓	
Middle Outfall	✓			✓	
Intersection #4	✓			✓	
North Outfall	✓			✓	
Peninsula - North	✓			✓	
Grand Plaza:	Good	Fair	Poor	Yes	No
Lights	✓			✓	Close per E.P.A. - 50 ft.
Concrete	✓			✓	because -
Rails	✓			✓	
Big Toy:	Good	Fair	Poor	Yes	No
Block Wall	✓			✓	See Notes / Pics
Sign	✓			✓	
Boardwalk/Benches	✓			✓	
Swings	✓			✓	
Chips	✓			✓	
Other:	Good	Fair	Poor	Yes	No
Bollards	✓			✓	CLEANED THE OUT OF LOCK RECESS AT (RB-68)
Coyotes	✓			✓	N/A
Tide Pool	✓			✓	
Misc. notes (use continuation sheet if necessary):	Close per E.P.A. - 50ft bearing Fence adjusted for the 50ft bearing @ Grand Plaza				

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE:

2-7-2014

SIGNED:

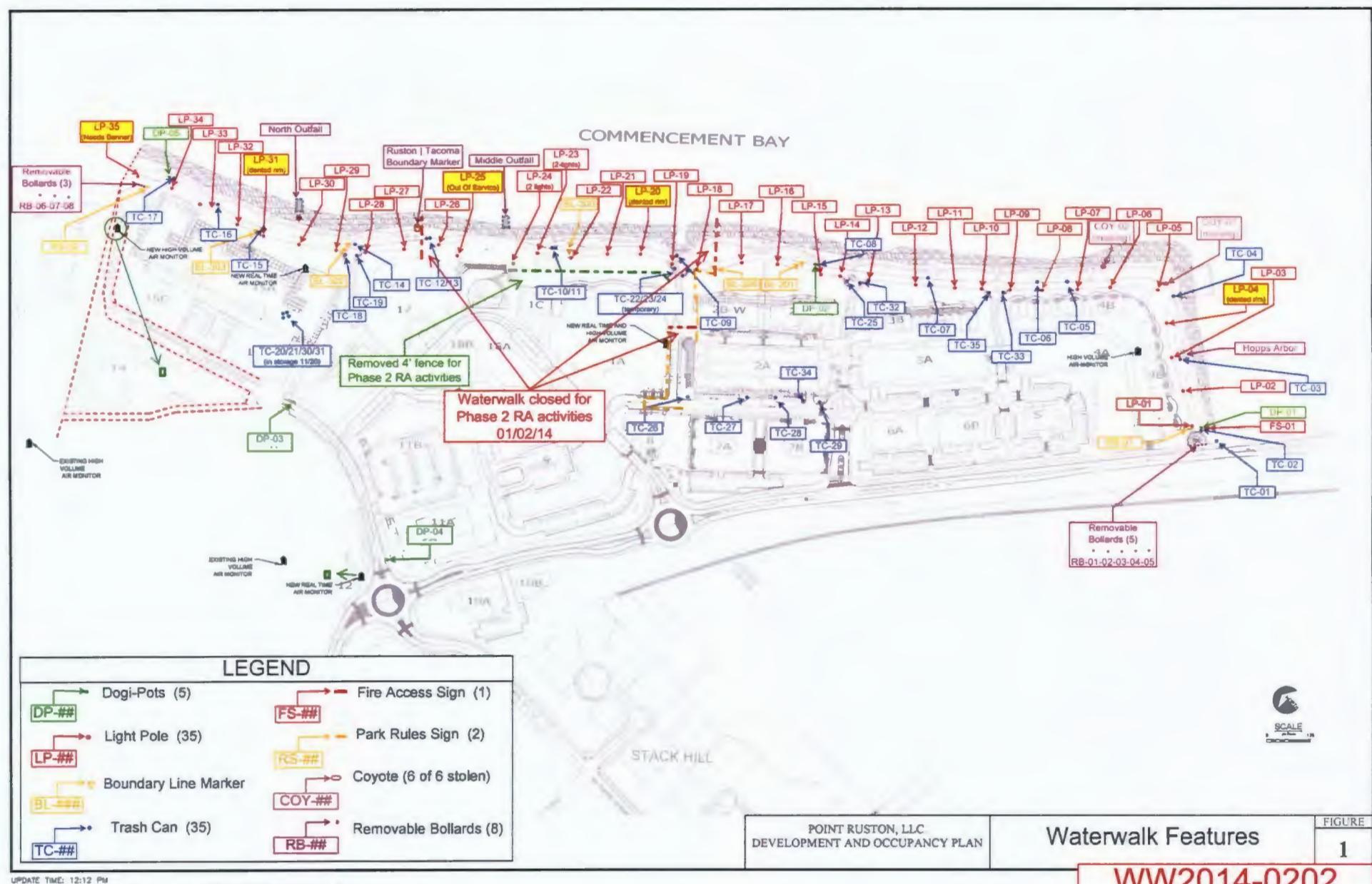
Henry J. Young Jr.

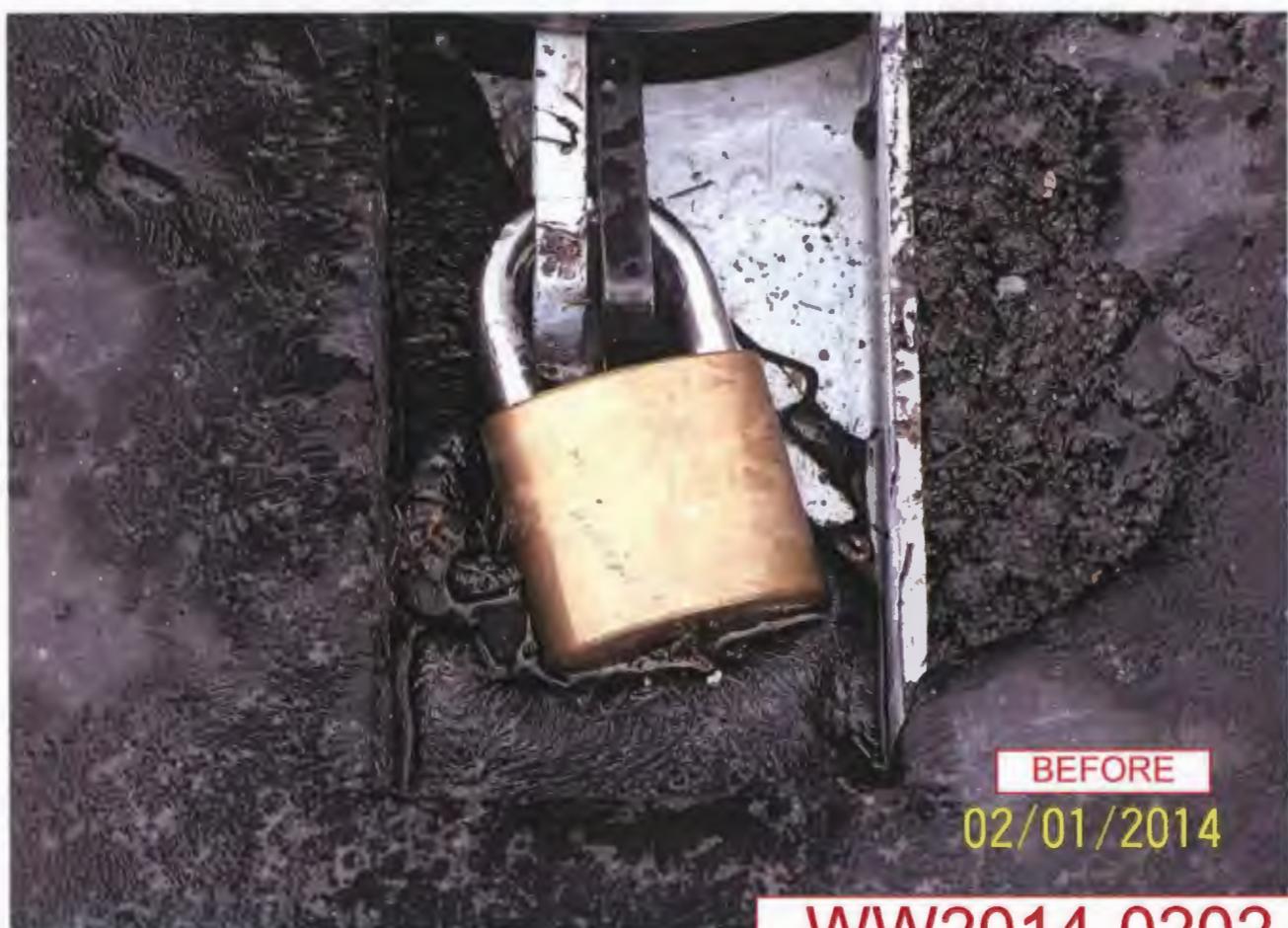
REVIEWED: DATE:

2/10/14

SIGNED:

[Signature]





WW2014-0202



Levelling, fill and soil removal pending.
Conditions: Frozen.

02/07/2014

WW2014-0202



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WW2014-0202



PENINSULA

Weekly Site Inspection Report No. PEN 2014-0262

Week of: 2/12 - 2/18, 2014 Inspector: Pat W. Luber

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERALL CONDITION (✓ CHECK ONE)			NEED REPAIR? (✓ CHECK ONE)	COMMENTS/OBSERVATIONS
Fence:	Good	Fair	Poor	Yes	No
Yacht Club Storage	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	rip ties
Waterwalk	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
EPA Signage	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
Source Area:	Good	Fair	Poor	Yes	No
Drainage	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
BMPs	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
Fence	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
BMPs:	Good	Fair	Poor	Yes	No
Plastic Cover	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
Sand Bags	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
Wattles	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
Silt Fence	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
Peninsula Liner:	Good	Fair	Poor	Yes	No
Geomembrane	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
Soil Cover	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
Marker Fabric	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
Soil Cap	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	photos taken of repairs & areas previous noted
Drainage	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
Other Features:	Good	Fair	Poor	Yes	No
Shoreline Armoring	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
Habitat Basin	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
City Outfall	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
Hydro Seed	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	

Misc. notes: GRASS Below Plastic Is STARTING To Push Up ON PLASTIC.

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE:

2/15/14

SIGNED:

H&S OFFICER: DATE:

2/16/14

SIGNED:



A B C D E F G H I J K L M N O P Q R S T U V W X

A)



NOTES:	= Cap repairs needed	= Cap repairs to monitor (Soil patch 12/6)	= Cap repairs to monitor (Plastic & sandbags 10/24)	= "No Access" signs
	= Unauthorized vehicle traffic (Tire ruts at edge of cap & pavement) Occurred 12/4 – 12/11			= Unauthorized vehicle traffic (Tire ruts on side of slope) Occurred 11/8 – 11/14
10/25/13	– Major erosion repairs completed. Moderate erosion repairs pending.			
11/02/13	– Wind storm damaged BMPs as noted on Site Plan PEN2013-1103(a)			
11/04/13 – 11/05/13	: Repairs to BMPs completed as noted on Site Plan PEN2013-1103(b)			
11/08/13	: Removed perimeter construction fence along marina road. A section of permanent fence remains near Club House parking.			
12/09/13	: Added wattles added as needed to protect smaller erosion locations. Patched smaller accessible erosion rills.			
01/10/14	: Silt fence at Yacht Club gravel parking area needs to be tied up. 01/13/14: Loose plastic at grids K/L-3/4 repaired with additional sand bags			



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PEN2014-0202



GENERAL SITE

Weekly Site Inspection Report No. GEN 2014-0209

(MM) (DD) (MM) (DD)
Week of: 02/09 - 02/15, 2014 Inspector: TIM RUSHER, SR.

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION (✓ CHECK ONE)			NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
Gates:	Good	Fair	Poor	Yes	No	(See "Streets" Report for additional gates)
Grand Ave (electric)	✓				✓	
54 th Street (electric)	✓				✓	
Bennett St (2 old single)	✓				✓	
Bennett St (old double)	✓				✓	
52 nd Street (temp panel)	✓				✓	
Signage:	Good	Fair	Poor	Yes	No	
Gates	✓				✓	
Perimeter	✓				✓	
Safety	✓				✓	
Security:	Good	Fair	Poor	Yes	No	
Locks	✓				✓	
Alarms	✓				✓	
Cameras		✓			✓	
BMPs:	Good	Fair	Poor	Yes	No	
Silt Fence	✓				✓	Stacking
Wattles	✓				✓	"
(Other)						
Nursery:	Good	Fair	Poor	Yes	No	
Plants	✓				✓	
Sprinkler	✓				✓	
Weeds	✓				✓	
Stockpiles:	Good	Fair	Poor	Yes	No	
Plastic	✓				✓	Stacking
Packed	✓				✓	
Dust:	Good	Fair	Poor	Yes	No	
Traffic areas						WET
Excavation area						Snow covered
Fencing:	Good	Fair	Poor	Yes	No	WIND FENCE NEEDS WORK (REPAVED 2/14)
Site Perimeter	✓				✓	REPAVED PRIMARY SCREEN FENCE & BENNETT FENCE
Zone Separation	✓				✓	MANTAINED & REPAVED DAILY
CRZs:	Good	Fair	Poor	Yes	No	
<u>PHASE 2</u>	✓				✓	
Boot Washes						
Haul Roads:	Good	Fair	Poor	Yes	No	
Main Street (east)	✓				✓	
Main Street (west)	✓				✓	
Grand Ave.	✓				✓	
MMZ area (Lot 15)	✓				✓	

GENERAL SITE - Weekly Site Inspection Report No. GEN 2014-0209
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Misc. notes:	◆ ES3 Real-Time Monitor is Not Reporting Data Consistently. TROUBLE SHOOTING PROBLEMS.
	◆ 2/11 SITE SPECIFIC TRAINING HAD FOR WATERPROOFING CONTRACTOR
	◆ MOWED OCF COVER THIS WEEK

Air Monitoring:

Day of Week	Hi-Vol QTY	Real Time	24-hr Avg µg/m³	Air Monitoring Notes	
				Personal QTY	Portable QTY
Sun	9	5	2	7.7	∅
Mon	10	5	3	8.9	∅
Tue	11	5	2	3.5	∅
Wed	12	5	3	4.5	∅
Thu	13	5	3	7.6	∅
Fri	14	5	3	6.8	∅
Sat	15	5	3	7.1	∅

WEATHER:

Day of Week	Summary of Weather Conditions							
	TEMPERATURE (F)		WIND (MPH)			RAIN (INCHES)	OTHER	
LOW	HIGH	DIRECTION	AVERAGE	GUST				
Sun	9	30	39	NE	2	.6	.32	CLOUDY w/ RAIN (LIGHT SNOW)
Mon	10	36	50	S	5	24	.79	RAIN
Tue	11	45	54	S	4	15	.6	CLOUDY w/ RAIN
Wed	12	44	56	SW	9	29	.17	PARTLY SUNNY
Thu	13	45	58	SSW	7	26	.08	CLOUDY /AFTERNOON SUN
Fri	14	40	55	SSW	7	28	.38	MOSTLY CLOUDY /SUN BREAKS /GUSTY WINDS
Sat	15	36	52	S	3.8	28	.45	MORNING CALM /PARTLY CLOUDY /RAIN /WINDS /AFTERNOON/EVENING

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 02/16/2014 SIGNED: [Signature]

H&S OFFICER: DATE: 02/16/14 SIGNED: [Signature]





OCF Recently Mowed
(circa Wednesday)



GEN2014-0209



PHASE 1 CMP

Weekly Site Inspection Report No.

P1CMP 2014-

0209

Week of: 2 19 - 21 15, 2014

Inspector: Pat WILBER

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			CLEAN?		NEED REPAIR?		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	Yes	No	
Gates								(EPA Requires all gates to remain closed & locked)
Main Street – (East)	✓			✓			✓	
Main Street – (West)	✓			✓			✓	
Bay View – (Lot 3)	✓			✓			✓	
Bldg 2BE – (Electric)	✓			✓			✓	
Bldg 2A-P1 – (Parking)	✓			✓			✓	
Bldg 2A-P1 – (3 single)	✓			✓			✓	Codes unlocked (2)
Sign Post Penetrations	Good	Fair	Poor	Yes	No	Yes	No	
SPP-01 (roundabout)	✓			✓			✓	
SPP-02 (roundabout)	✓			✓			✓	
SPP-03 (roundabout)	✓			✓			✓	
SPP-04 (roundabout)	✓			✓			✓	
SPP-05 (Ramp to PI)	✓			✓			✓	
Street Light Base	Good	Fair	Poor	Yes	No	Yes	No	
SLB-01 (NW)	✓			✓			✓	
SLB-02 (SW)	✓			✓			✓	
Water Meter Vaults	Good	Fair	Poor	Yes	No	Yes	No	(WMV - outer SILICONE only)
WMV-01	✓			✓			✓	Reseal
WMV-02	✓			✓			✓	Reseal
Water Valve Lids	Good	Fair	Poor	Yes	No	Yes	No	(WVL - inner GASKET and outer SILICONE)
WVL-01	✓			✓			✓	Reseal
WVL-02	✓			✓			✓	
WVL-03	✓			✓			✓	
WVL-04	✓			✓			✓	
WVL-05	✓			✓			✓	
WVL-06	✓			✓			✓	
WVL-07	✓			✓			✓	
WVL-08	✓			✓			✓	Reseal
WVL-09	✓			✓			✓	Reseal?
WVL-10	✓			✓			✓	At reseal
WVL-11	✓			✓			✓	
WVL-12	✓			✓			✓	
WVL-13	✓			✓			✓	Reseal
WVL-14	✓			✓			✓	Reseal
WVL-15	✓			✓			✓	
WVL-16	✓			✓			✓	(located in unfinished area between 2A & 2BE)
FDC Vault	Good	Fair	Poor	Yes	No	Yes	No	(FDCV - outer SILICONE only)
FDCV-01	✓			✓			✓	car parked on lid
Irrigation Vault Lids	Good	Fair	Poor	Yes	No	Yes	No	(IVL - inner GASKET and outer SILICONE)
IVL-01	✓			✓			✓	
IVL-02	✓			✓			✓	
IVL-03	✓			✓			✓	

(LOCATION LAYOUT ON REVERSE)

PHASE 1 CMP - Weekly Site Inspection Report No. P1CMP 2014- 0209
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			CLEAN?		NEED REPAIR?		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	Yes	No	
Power Vault Lids PVL-01 PVL-02 PVL-03	✓			✓			✓	(PVL - outer SILICONE only)
				✓			✓	
				✓			✓	
Propane Conduit LPG-01	✓			✓			✓	
Clean Out Lids COL-01 COL-02 COL-03 COL-04	✓			—			✓	(COL - inner GASKET and outer SILICONE)
				✓			✓	
				✓			✓	
				✓			✓	
Other Features Curb & Gutter Trans. Thickened HMA Edge AC to PCC Trans. PCC Slab to HMA Trans. WSDOT Transverse Joint	✓			✓			✓	
				✓			✓	
				✓			✓	
				✓			✓	
				✓			✓	
Misc Extruded Curb AC Cap Edge Interior Fence (P1) Exterior Fence EPA Signage	✓			✓			✓	
				✓			✓	
				✓			✓	
				✓			✓	

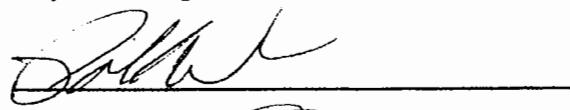
Misc. notes:

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE:

2/13/14

SIGNED:

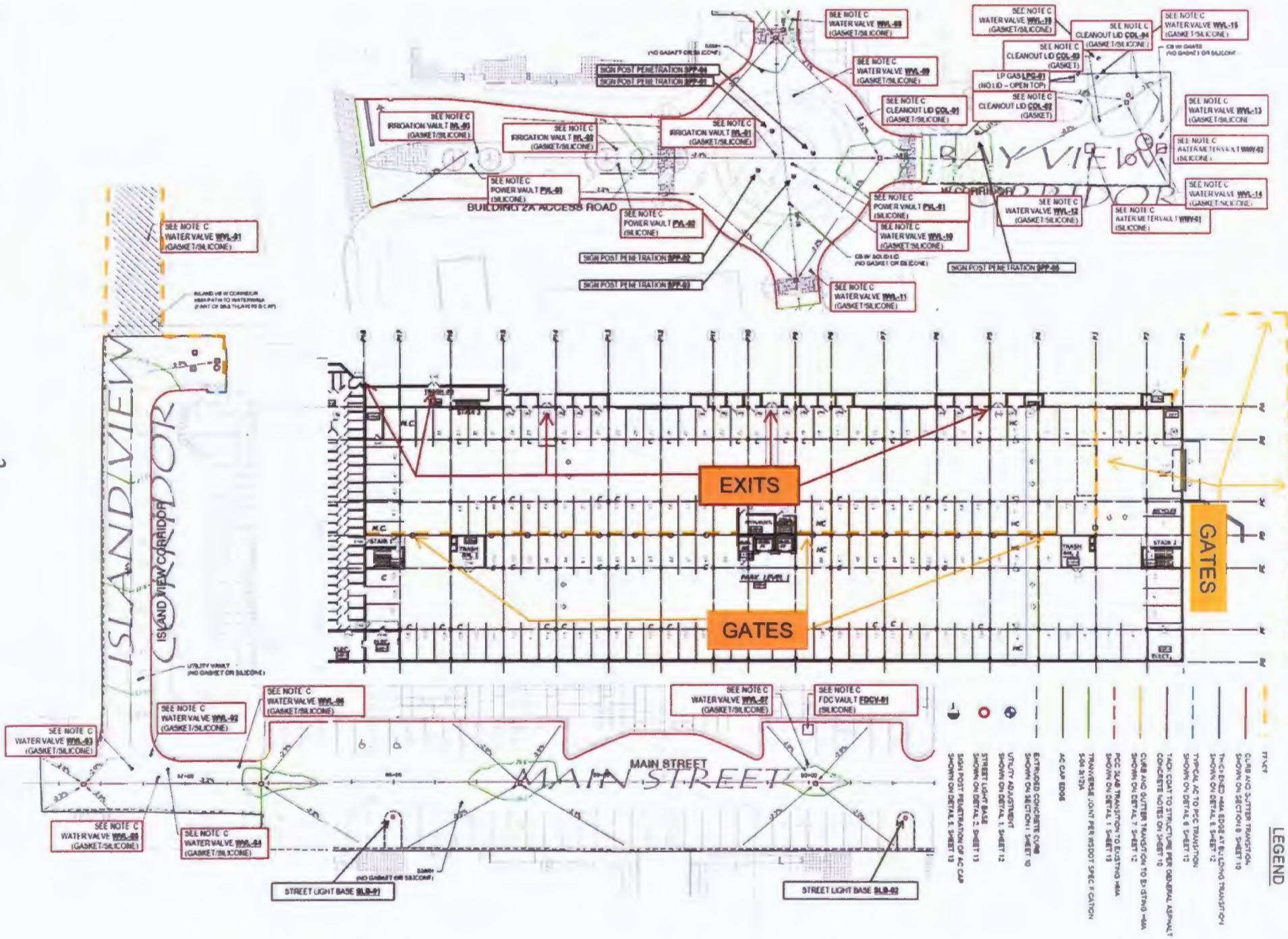


REVIEWED: DATE:

2/16/14

SIGNED:







Building 2BE Progress



P1CMP2014-0209



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P1CMP2014-0209



WEEKLY

PHASE 2 CMP

Weekly Site Inspection Report No. P2CMP2014-0209

Week of: 02/09 - 02/15, 2014 Inspector: Harry Slaughter

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION (✓ CHECK ONE)			NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	
Air Monitors:						
Hi-Vol Lot 1	✓				✓	
TSP (ES1)	✓				✓	
TSP (ES2) 2A roof	✓				✓	
Personal Air Monitoring						N/A
Signage:	Good	Fair	Poor	Yes	No	
Gates	✓				✓	
Perimeter	✓				✓	
Safety	✓				✓	
Security:	Good	Fair	Poor	Yes	No	
Locks	✓				✓	
Alarms	✓				✓	
Cameras	✓				✓	
BMPs:	Good	Fair	Poor	Yes	No	
Tackifier	✓				✓	
Silt Fence						N/A
Wattles						N/A
(Other)						
Fencing:	Good	Fair	Poor	Yes	No	
6' Security Fence	✓				✓	
Wind Fence	✓				✓	
Exclusion Zone	✓				✓	
CRZ Gate Lock	✓				✓	
Stockpiles:	Good	Fair	Poor	Yes	No	
Plastic	✓				✓	
Packed					✓	
Dust:	Good	Fair	Poor	Yes	No	
Traffic areas	✓				✓	
Excavation area	✓				✓	
(Other)						
Personnel:	Good	Fair	Poor	Yes	No	
Properly Trained	✓				✓	
Coveralls	✓				✓	
Hard Hats	✓				✓	
ID Badges	✓				✓	
(Other)						

PHASE 2 CMP - Weekly Site Inspection Report No. P2CMP2014-0209
Operable Unit 02 -- Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION ✓ CHECK ONE)		NEED REPAIR? ✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	
CRZs:	Good	Fair	Poor	Yes	No
	✓			✓	
	✓			✓	
	✓			✓	
	✓			✓	
	✓			✓	
	✓			✓	
	✓			✓	
	✓			✓	
	✓			✓	
Haul Roads:	Good	Fair	Poor	Yes	No
	✓			✓	
(Other)					

Misc. notes: (See Daily Inspection Checklists Attached)

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 2/14/2014 SIGNED: Henry J. Slaw

H&S OFFICER: DATE: 2/16/14 SIGNED: 



(DAILY)

PHASE 2 CMP

Informal Daily Inspection Checklist No. P2CMP(D)2014-0210Date: 02 10, 2014Inspector: Harry Slaughter

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	CHECKED (✓ CHECK ONE)		NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Yes	No	Yes	No	
Air Monitors	/	/	/	/	
Lunch Room	✓	/	/	/	
Coverall Room	✓	/	/	/	
First Aid	/	/	/	/	
Fire Extinguishers	✓	/	/	✓	
Signage	✓	/	/	/	
Tackifier	/	/	/	/	
Security Fence	✓	/	/	/	
Wind Fence	✓	/	/	/	
E.Z. Fence	✓	/	/	✓	Hecked fencing
Stockpiles	✓	/	/	✓	
Dust	✓	/	/	/	Rain - SNOW
CRZs	✓	/	/	/	
Haul Roads	✓	/	/	/	
Building Materials	/	/	/	/	
Boot Washes	Qty. in use <u>6</u>	/	/	/	
Hand Wash	Qty. in use <u>1</u>	/	/	/	
Porta Potties	Qty. in use <u>2</u>	/	/	/	
Personnel	Company:	Number of Workers		COMMENTS/OBSERVATIONS	
	CalPortland	3	/	Concrete pour (3) Trucks	
	P.R.	6	/	Set flumps - Lot #18	
	Ser. Constr.	1	/	Poured Wall Form	
	Putz M.	1	/	Pump truck	
	E.I Gov	1	/		
	HYDROMAT	1	/		

Misc. notes: Concrete Pour - lots # 1 & 18 GRAND Ave Plaza

INSPECTOR: DATE: 2/10/2014SIGNED: Harry Slaughter



(DAILY)

PHASE 2 CMP

Informal Daily Inspection Checklist No. P2CMP(D)2014-02/14

(MM)

(DD)

Date: 02 / 11, 2014

Inspector: Harry G. Slaughter

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	CHECKED (✓ CHECK ONE)		NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Yes	No	Yes	No	
Air Monitors	✓		✓		Added New Mast 2/11/14
Lunch Room	✓		✓		
Coverall Room	✓		✓		Referenced
First Aid	✓		✓		
Fire Extinguishers	✓		✓		
Signage	✓		✓		
Tackifier	✓	✓	✓		
Security Fence	✓		✓		
Wind Fence	✓		✓		Completed 2/11/14
E.Z. Fence	✓		✓		
Stockpiles	✓		✓		
Dust	✓		✓		Rain
CRZs	✓		✓		
Haul Roads	✓		✓		
Building Materials	✓		✓		
Boot Washes	Qty. in use <u>6</u>	✓		✓	
Hand Wash	Qty. in use <u>1</u>	✓		✓	Serviced 2/11/14
Porta Potties	Qty. in use <u>2</u>	✓		✓	Serviced 2/11/14
Personnel	Company:	Number of Workers		COMMENTS/OBSERVATIONS	
	P.R.	<u>2</u>			
	Hydromati	<u>1</u>			
	E.I. Gov	<u>1</u>			

Misc. notes:



(DAILY)

PHASE 2 CMP

Informal Daily Inspection Checklist No. P2CMP(D)2014-0212

(MM)

(DD)

Date: 02 12, 2014

Inspector: Harry Daugherty

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	CHECKED (✓ CHECK ONE)		NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Yes	No	Yes	No	
Air Monitors	✓			✓	
Lunch Room	✓			✓	
Coverall Room	✓				
First Aid	✓			✓	
Fire Extinguishers	✓				
Signage	✓		✓		Challenged Signage lost 18
Tackifier	✓		✓		
Security Fence	✓		✓		
Wind Fence	✓		✓		Wind damage
E.Z. Fence	✓		✓		Wind damage / Repaired —
Stockpiles	✓				
Dust	✓			✓	Dust
CRZs	✓			✓	
Haul Roads	✓			✓	
Building Materials	✓			✓	
Boot Washes	Qty. in use 6	✓		✓	
Hand Wash	Qty. in use 1	✓		✓	
Porta Potties	Qty. in use 2	✓		✓	
Personnel	Company:	Number of Workers	COMMENTS/OBSERVATIONS		
	P.R.	5	Cutting swale for run-off		
	E.I.Gov	1	Site check		
	HYDROMET Ser. Const	3	Site check stripping forms		

Misc. notes: Winds are still Very High; try to repair wind fence.

INSPECTOR: DATE: 2/12/2014

SIGNED: Harry J. Daugherty



(DAILY)

PHASE 2 CMP

Informal Daily Inspection Checklist No. P2CMP(D)2014- 0213

Date: 02 / 13 , 2014

Inspector: Harry Saenger

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	CHECKED (✓ CHECK ONE)		NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Yes	No	Yes	No	
Air Monitors	✓				
Lunch Room	✓			✓	
Coverall Room	✓				
First Aid	.				
Fire Extinguishers	✓				
Signage	✓				
Tackifier	✓			✓	
Security Fence	✓			✓	
Wind Fence	✓		✓		Wind is still too high for repairs
E.Z. Fence	✓		✓		Machine Repairs -
Stockpiles	✓				
Dust	✓			✓	
CRZs	✓				
Haul Roads	✓				
Building Materials	✓			✓	
Boot Washes	4	✓		✓	Site crew assists with Boot Maint.
Hand Wash	1	✓			
Porta Potties	2	✓		✓	
Personnel	Company:	Number of Workers		COMMENTS/OBSERVATIONS	
	P.R.	4		Get Pump hoses / Site check	
	E.I.Gov	1		Site check	
	Ser. Contr.	3		Sweeping/Cleaning floors	
	HYDROMETRIC	1		Site check	

Misc. notes:

INSPECTOR: DATE: 2/13/2014

SIGNED: Harry Saenger



(DAILY)

PHASE 2 CMP

Informal Daily Inspection Checklist No. P2CMP(D)2014-0214

Date: 12/14, 2014

Inspector: Harry G. Langford

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	CHECKED (✓ CHECK ONE)		NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Yes	No	Yes	No	
Air Monitors	/	/	/	/	
Lunch Room	/	/	/	/	
Coverall Room	/		/		
First Aid	/		/		
Fire Extinguishers	/		/		
Signage	/				
Tackifier					
Security Fence	/				
Wind Fence	/		/		
E.Z. Fence	/		/		
Stockpiles	/		/		
Dust	/		/		
CRZs	/		/		
Haul Roads	/		/		
Building Materials	-		-		
Boot Washes	Qty. in use 6				
Hand Wash	Qty. in use 1	/	/		Serviced today,
Porta Potties	Qty. in use 2	/	/		Serviced today
Personnel	Company: P.R. E.I.GOV	Number of Workers 3 1			COMMENTS/OBSERVATIONS Site Maintenance

Misc. notes:

INSPECTOR: DATE: 2/14/2014

SIGNED: Henry J. Sharp



2014/02/11



02/11/2014

Phase 2 Status



2014/02/11



2014/02/11

P2CMP2014-0209



2014/02/11



02/11/2014

Plaza Wall Status



2014/02/11



2014/02/11

P2CMP2014-0209



Plaza Retaining Wall Progress



P2CMP2014-0209



P2CMP2014-0209



P2CMP2014-0209



P2CMP2014-0209



STREETS / MICMP

Weekly Site Inspection Report No. MICMP 2014-0209

Week of: 02/09 - 02/15, 2014 Inspector: Harry Slaughter

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION (✓ CHECK ONE)			NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	
Streets:	✓			✓		
	✓			✓		
	✓			✓		
	✓			✓	✓	See Notes
Signage:	✓			✓		
	✓			✓		
	✓			✓		
	✓			✓		
	✓			✓		
	✓			✓		
Street Lights:	✓			✓		
	✓			✓		
	✓			✓		
	✓			✓		
	✓			✓		
	✓			✓		
	✓			✓		
	✓			✓		
Storm Drains:	✓			✓		See Notes / Pic
	✓			✓		See Notes
	✓			✓		See Notes
	✓			✓		
Sidewalks:	✓			✓		
	✓			✓		
	✓			✓		
	✓			✓		
	✓			✓		
	✓			✓		
Landscaping:	✓			✓		
	✓			✓		
	✓			✓		
	✓			✓		
	✓			✓		
Roundabouts:	✓			✓		
	✓			✓		
	✓			✓		GRASS, Weeds, moss —

STREETS - Weekly Site Inspection Report No.

MICMP 2014-0209

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION (✓ CHECK ONE)			NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	
Features:						
Wall/Rail (Other)	/			/	/	
Gates:	Good	Fair	Poor	Yes	No	
51 st St – (Pond)	/				/	
Roundabout – (Pond)	/			/		Sprayed WD-40 - All locks
Roundabout – (Lot 12)	/				/	
Roundabout – (Lot 10)	/				/	
Ruston Way – (Lot 10)	/				/	
BNSF Access	/				/	
OSW02 – (Ruston)	/				/	
52 nd – (OCF Vault 2)	/				/	
Yacht Club - (Cascade)	/				/	
Yacht Club – (Vault)	/				/	
Yacht Club – (Lot 11)	/				/	
Yacht Club – (Lot 14)	/				/	
Yacht Club – (MMZ)	/				/	
Other:	Good	Fair	Poor	Yes	No	
Jersey Barriers	/				/	
Baltimore Bridge	/				/	
Yacht Club – Steep Slope (Other)	/				/	

Misc. notes: Splitter Islands: Grass, weeds, moss growing.
 STR Lights: Base is damaged @ Grand Ave P.A.B. - Base
 Raised Yacht Club.
 S. Walks: CRACKS, chips : Ruston WAY, 51st Str- Caulking
 Yacht Club -
 Curb/Gutter: CRACKS, chips - Ruston way -
 C.B. @ Villard & Court - Needs to be reset?

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 2/13/2014

SIGNED: Henry J. Shough

REVIEWED: DATE: 2/16/14

SIGNED: [Signature]



02/13/2014

**Damaged Light Pole Base at Grand Roundabout
Occurred sometime in the past week.**

MICMP2014-0209



MICMP2014-0209



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100_2204.JPG

MICMP2014-0209



TEMPORARY IMPERMEABLE CAP

Weekly Site Inspection Report No. TIC 2014-0209

Week of: 02/10/14 - 02/15/14, 2014

Inspector: Harry Slaughter

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			CLEAN?		NEED REPAIR?		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	Yes	No	
Lot 1 Geomembrane (03/10/13) Sand Bag Cover (07/10/13) Anchor Edge Berm Drainage Other	/	/	/	/	/	/	/	See Notes / Pics
Lot 3 Geomembrane (03/04/13) Sand Bag Cover (07/02/13) Anchor Edge Berm Drainage Other	/	/	/	/	/	/	/	See Pics
Lot 4 Geomembrane (12/11/12) Sand Bag Cover (07/02/13) Anchor Edge Berm Drainage Patch (1: 05/15/13) Other	/	/	/	/	/	/	/	Pic
Lot 5 (02/11/13) / 6 (01/17/13) Geomembrane Sand Bag Cover (07/02/13) Anchor Edge Berm Drainage Patches (2:05/10/13;1:06/12/13) Other	/	/	/	/	/	/	/	Pics Pooling / Pounding
Lot 7 Geomembrane (01/03/13) Sand Bag Cover (07/10/13) Anchor Edge Berm Drainage Other	/	/	/	/	/	/	/	Pooling / Pounding
Lot 9/11 Geomembrane (04/05/13) Sand Bag Cover (07/05/13) Anchor Edge Berm Drainage Other <u>POND</u>	/	/	/	/	/	/	/	

TEMPORARY CAP - Weekly Site Inspection Report No. TIC 2014-0209
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			CLEAN?		NEED REPAIR?		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	Yes	No	
Lot 12 Geomembrane (04/23/13) Sand Bag Cover (07/10/13) Anchor Edge Berm Drainage Other	/			/		/		
Lot 14 Geomembrane (10/17/13) Sand Bag Cover (10/18/13) Anchor Edge Berm (10/22/13) Drainage Block Wall	/			/		/		
Lot 16 Geomembrane (04/16/13) Sand Bag Cover (12/05/13) Anchor Edge Berm Drainage Other	/			/		/		Partial TIC / Temp Gravel Cap
Lot 17/18 Geomembrane (04/13/13) Sand Bag Cover (07/09/13) Anchor Edge Berm Drainage Other	/			/		/		Equipment, Fuel, Materials See Notes / Pics
MMZ (Lot 15) Gravel Stock Pile Sand Bags On Hand T.I.C. Repair Kit Other	/			/	X	/		

Misc. notes: Lot # 1; Excavation, E-Z fence, Equipment, Surveyors
 New Construction -
 Lot # 17/18: Partial TIC Removed for drainage per Lot # 1
 Construction

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 2/11/2014 SIGNED: Henry J. Shugard

REVIEWED: DATE: 2/16/14 SIGNED: [Signature]



TIC 5

02/11/2014



TIC 6

02/11/2014

Status of liner patches



TIC 4

02/11/2014



TIC 6

02/11/2014

TIC2014-0209



02/11/2014



TIC2014-0209



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TIC2014-0209



WATERWALK

Weekly Site Inspection Report No. WW 2014- 0209

Week of: 02/09 - 02/15, 2014 Inspector: Harry Slaughter
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERALL CONDITION (✓ CHECK ONE)			NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	
Paths:	Good	Fair	Poor	Yes	No	
	✓				✓	
	✓				✓	
	✓				✓	
Signage:	Good	Fair	Poor	Yes	No	
	✓				✓	
	✓				✓	
	✓				✓	
Street Lights:	Good	Fair	Poor	Yes	No	
	✓				✓	
	✓				✓	
	✓				✓	
Storm Drains:	Good	Fair	Poor	Yes	No	
	✓				✓	
	✓				✓	
Octopus:	Good	Fair	Poor	Yes	No	
	✓				✓	
	✓			✓		Needs Cleaning
	✓			✓		
Intersection #1:	Good	Fair	Poor	Yes	No	
	✓				✓	
	✓				✓	Needs Cleaning
	✓				✓	Touch up
Intersection #2:	Good	Fair	Poor	Yes	No	
	✓				✓	
	✓				✓	Needs Cleaning
	✓				✓	Touch up
Intersection #3:	Good	Fair	Poor	Yes	No	
	✓				✓	
	✓				✓	Needs Cleaning
	✓				✓	Touch up
Intersection #4:	Good	Fair	Poor	Yes	No	
	✓				✓	
	✓				✓	
Sprinkler:	Good	Fair	Poor	Yes	No	
	✓				✓	
	✓				✓	

WATERWALK - Weekly Site Inspection Report No. WW 2014-0209
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERALL CONDITION (✓ CHECK ONE)			NEED REPAIR? (✓ CHECK ONE)	COMMENTS/OBSERVATIONS	
	Good	Fair	Poor			
Landscaping:	Good	Fair	Poor	Yes	No	
Trees	✓				✓	
Plants	✓				/	
Grass	✓				/	
Bark/Mulch	✓				/	
Hardware:	Good	Fair	Poor	Yes	No	
Cleat Benches	✓				✓	
Metal Benches	✓				✓	
Tables	✓				✓	
Trash Cans	✓				✓	
Gates:	Good	Fair	Poor	Yes	No	
Ferry – Struts	✓				✓	
TIC – Lots 3/4	✓				✓	
Intersection #1	✓				✓	
Intersection #2	✓				✓	
Middle Outfall	✓				✓	
Intersection #4	✓				✓	
North Outfall	✓				✓	
Peninsula - North	✓				✓	
Grand Plaza:	Good	Fair	Poor	Yes	No	
Lights	✓				✓	<i>Closed / Fenced - off</i>
Concrete	✓				✓	
Rails	✓				✓	
Big Toy:	Good	Fair	Poor	Yes	No	
Block Wall	✓				✓	
Sign	✓				✓	
Boardwalk/Benches	✓				✓	
Swings	✓				✓	
Chips	✓				✓	
Other:	Good	Fair	Poor	Yes	No	
Bollards	✓				✓	
Coyotes	✓	✓		✓	✓	
Tide Pool	✓			✓	✓	N/A
Misc. notes (use continuation sheet if necessary):						

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE:

2/14/2014

SIGNED:

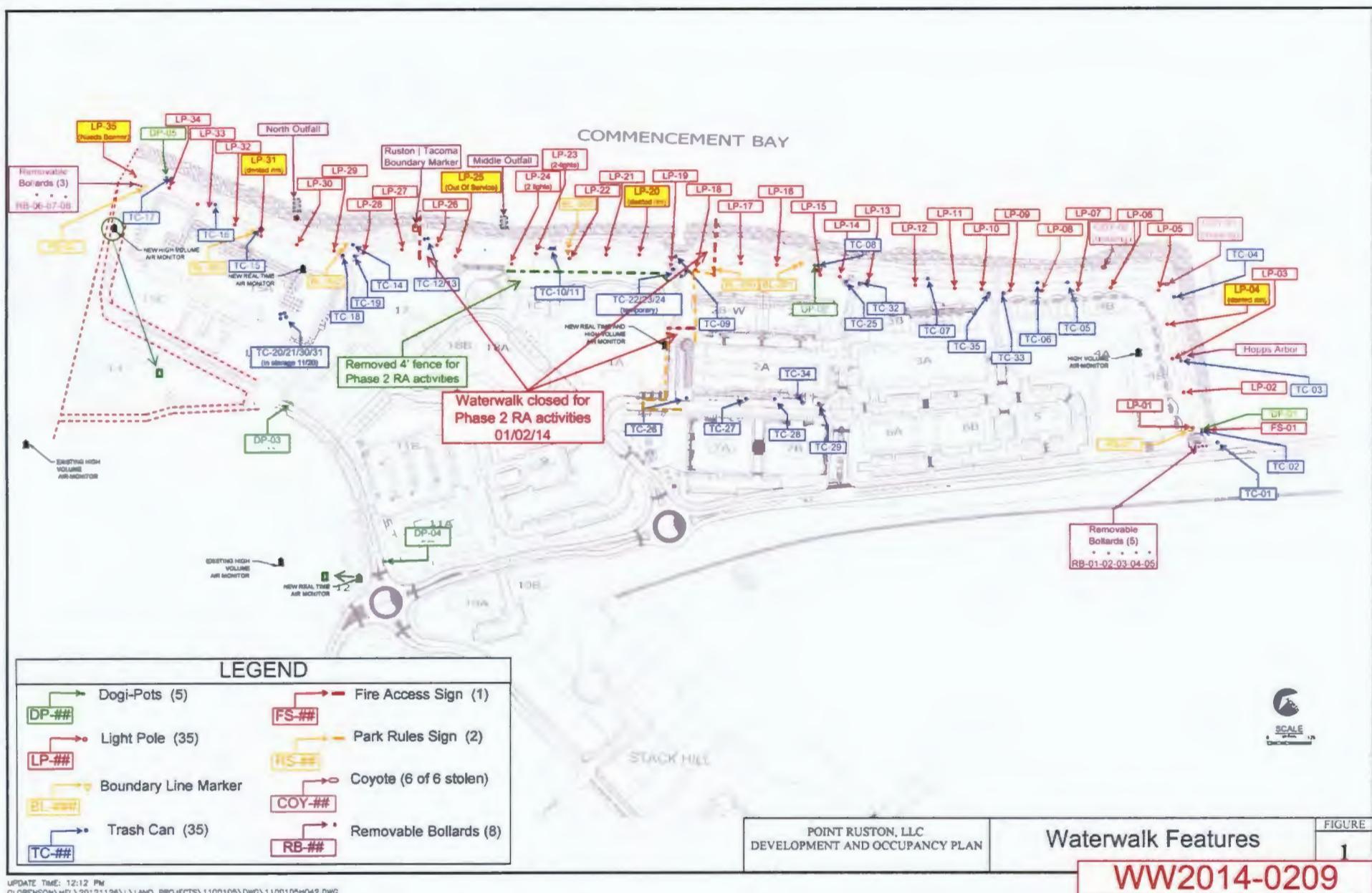
Haney J. Sh

REVIEWED: DATE:

2/16/14

SIGNED:

[Signature]





PENINSULA

Weekly Site Inspection Report No. PEN 2014-0209

Week of: 2/19 - 2/15, 2014 Inspector: Pat WILBER

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION <small>(✓ CHECK ONE)</small>			NEED REPAIR? <small>(✓ CHECK ONE)</small>		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	
Fence:						
Yacht Club Storage	✓			✓		rip trees
Waterwalk	✓			✓		
EPA Signage	✓			✓		
Source Area:						
Drainage	✓			✓		
BMPs	✓			✓		
Fence	✓			✓		
BMPs:						
Plastic Cover	✓			✓		
Sand Bags	✓			✓		
Wattles	✓			✓		
Silt Fence	✓			✓		
Peninsula Liner:						
Geomembrane	✓			✓		
Soil Cover	✓			✓		
Marker Fabric	✓			✓		Photos taken of exposed areas
Soil Cap	✓			✓		Photos taken of previous repair >
Drainage	✓			✓		
Other Features:						
Shoreline Armoring	✓			✓		
Habitat Basin	✓			✓		
City Outfall	✓			✓		
Hydro Seed	✓			✓		

Misc. notes:

~~soil~~ soft + wet - very soft on slopes

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 2/12/14 SIGNED: Pat Wilber

H&S OFFICER: DATE: 2/16/14 SIGNED: [Signature]



NOTES: = Cap repairs needed

 = Cap repairs to monitor (Soil patch 12/6)

 = Cap repairs to monitor (Plastic & sandbags 10/24)

 = "No Access" sign

9/25/13 – Major erosion repairs completed. Moderate erosion repairs pending.

11/02/13 – Wind storm damaged BMPs as noted on Site Plan PEN2013-1103(a)

11/04/13 – 11/05/13: Repairs to BMPs completed as noted on Site Plan PEN2013-11D3(b)

11/08/13: Removed perimeter construction fence along marina road. A section of permanent fence remains near Club House parking.

12/09/13: Added wattles added as needed to protect smaller erosion locations. Patched smaller accessible erosion rills.

01/10/14: Silt fence at Yacht Club gravel parking area needs to be tied up. 01/13/14: Loose plastic at grids K/L-3/4 repaired with additional sand bags

PEN2014-0209



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PEN2014-0209



GENERAL SITE

Weekly Site Inspection Report No. GEN 2014-0216

Week of: 02/16 - 02/22, 2014 Inspector: Tim RUSHER

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION (✓ CHECK ONE)			NEED REPAIR? (✓ CHECK ONE)	COMMENTS/OBSERVATIONS
Gates:	Good	Fair	Poor	Yes	No
Grand Ave (electric)	✓			✓	(See "Streets" Report for additional gates)
54 th Street (electric)	✓			✓	INSTALLED BATTERY CHARGER ON ENTRANCE GATE
Bennett St (2 old single)	✓			✓	
Bennett St (old double)	✓			✓	
52 nd Street (temp panel)	✓			✓	
Signage:	Good	Fair	Poor	Yes	No
Gates	✓			✓	
Perimeter	✓			✓	
Safety	✓			✓	
Security:	Good	Fair	Poor	Yes	No
Locks	✓			✓	
Alarms	✓			✓	
Cameras	✓			✓	
BMPs:	Good	Fair	Poor	Yes	No
Silt Fence	✓			✓	STACK HU
Wattles	✓			✓	STACK HU
(Other)					
Nursery:	Good	Fair	Poor	Yes	No
Plants	✓			✓	
Sprinkler	✓			✓	OFF FOR SEASON
Weeds	✓			✓	
Stockpiles:	Good	Fair	Poor	Yes	No
Plastic	✓			✓	
Packed	✓			✓	
Dust:	Good	Fair	Poor	Yes	No
Traffic areas	✓			✓	WET SITE CONDITIONS
Excavation area	✓			✓	
Fencing:	Good	Fair	Poor	Yes	No
Site Perimeter	✓			✓	
Zone Separation	✓			✓	
CRZs:	Good	Fair	Poor	Yes	No
PHASE 2	✓			✓	
Boot Washes	✓			✓	
Haul Roads:	Good	Fair	Poor	Yes	No
Main Street (east)	✓			✓	
Main Street (west)	✓			✓	
Grand Ave.	✓			✓	
MMZ area (Lot 15)	✓			✓	

GENERAL SITE - Weekly Site Inspection Report No. GEN 2014-0216
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Misc. notes:

Misc. notes:

Air Monitoring:

Day of Week	Hh-Vol QTY	Real Time	24-hr Avg $\mu\text{g}/\text{m}^3$	Personal QTY	Portable QTY	Air Monitoring Notes
Sun	16	5	3	3.1	Ø	Wind & Rainy No work Activity
Mon	17	5	3	1.6	Ø	Site Maintenance / Storm Water Management
Tue	18	5	3	3.1	Ø	Site Maintenance and Storm Water Management
Wed	19	5	3	3.1	Ø	Site Maintenance and Storm Water Management
Thu	20	5	3	5.9	Ø	Site Maintenance and Monitoring
Fri	21	5	3	3.8	Ø	Excavate lot #1 / Haul Spoils to Grand Plaza
Sat	22	5	3	4.7	4	Excavate lot #1. Load B-Haul to Grand Plaza Dump

WEATHER:

Day of Week	Summary of Weather Conditions						
	TEMPERATURE (F)		WIND (MPH)		RAIN (INCHES)	OTHER	
LOW	HIGH	DIRECTION	AVERAGE	GUST			
Sun	39	50	South	10	30	1.25	Mostly cloudy w/ rain fall
Mon	40	51	SSW	6	22	1.25	Mostly rain w/ some sun light
Tue	40	48	SSW	9	42	.65	Partly cloudy w/ some sun and Rain
Wed	39	49	SSW	8	20	.12	Partly cloudy w/ showers and a little sun
Thu	41	51	SSW	9	27	.21	Cloudy w/ showers and a little sun
Fri	37	45	ESE	4	17	.03	Mostly cloudy / Mild Day Showers
Sat	36	45	SSW	4	13	.08	Scattered Drizzles / Mostly cloud

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 2/24/14

SIGNED: 

H&S OFFICER: DATE: 2/24/14

SIGNED: 



New addition to equipment inventory.



GEN2014-0216



02/16/2014



02/16/2014

Stack Hill Lot #29 Erosion
Impacts neighboring property and storm drains



02/16/2014



02/16/2014

GEN2014-0216



GEN2014-0216



Town of Ruston Petroleum Spill



Photos copied out of dash-cam video
Time stamp is about 1-hour fast.

GEN2014-0216



Petroleum tracked into parking lot

GEN2014-0216



PHASE 1 CMP

Weekly Site Inspection Report No. P1CMP 2014-0216

Week of: 2/16 - 2/22, 2014 Inspector: Pat Wilber

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			CLEAN?		NEED REPAIR?		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	Yes	No	
Gates				✓				(EPA Requires all gates to remain closed & locked)
Main Street – (East)	—			✓		✓		
Main Street – (West)	✓			✓		✓		
Bay View – (Lot 3)	✓			✓		✓		
Bldg 2BE – (Electric)	✓			✓		✓		
Bldg 2A-P1 – (Parking)	✓			✓		✓		
Bldg 2A-P1 – (3 single)	✓			✓		✓		
Sign Post Penetrations	Good	Fair	Poor	Yes	No	Yes	No	
SPP-01 (roundabout)	✓			✓			✓	
SPP-02 (roundabout)	—			✓			✓	
SPP-03 (roundabout)	—			✓			✓	
SPP-04 (roundabout)	✓			✓			✓	
SPP-05 (Ramp to PI)	✓			✓			✓	
Street Light Base	Good	Fair	Poor	Yes	No	Yes	No	
SLB-01 (NW)	✓			✓			—	
SLB-02 (SW)	✓			✓			✓	
Water Meter Vaults	Good	Fair	Poor	Yes	No	Yes	No	(WMV - outer SILICONE only)
WMV-01	✓			✓		✓		Reseal
WMV-02	✓			—		✓		Reseal
Water Valve Lids	Good	Fair	Poor	Yes	No	Yes	No	(WVL - inner GASKET and outer SILICONE)
WVL-01	✓			✓			✓	
WVL-02	—			✓			✓	
WVL-03	✓			✓			✓	
WVL-04	✓			✓			✓	
WVL-05	✓			✓			✓	
WVL-06	✓			✓			✓	
WVL-07	✓			✓			✓	
WVL-08	—			✓			✓	
WVL-09	—			✓			✓	
WVL-10	—			✓			✓	
WVL-11	—			✓			✓	
WVL-12	✓			✓			✓	
WVL-13	—			✓		✓		reseal
WVL-14	✓			✓		✓		reseal
WVL-15	✓			—			✓	
WVL-16	—			✓		✓		(located in unfinished area between 2A & 2BE)
FDC Vault	Good	Fair	Poor	Yes	No	Yes	No	(FDCV - outer SILICONE only)
FDCV-01	—			—		—	✓	Crk Parker over lid
Irrigation Vault Lids	Good	Fair	Poor	Yes	No	Yes	No	(IVL - inner GASKET and outer SILICONE)
IVL-01	✓			✓			✓	
IVL-02	✓			✓			✓	
IVL-03	✓			—			✓	

(LOCATION LAYOUT ON REVERSE)

PHASE 1 CMP - Weekly Site Inspection Report No. P1CMP 2014-0216
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			CLEAN?		NEED REPAIR?		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	Yes	No	
Power Vault Lids PVL-01 PVL-02 PVL-03	✓			✓			✓	(PVL - outer SILICONE only)
	✓			✓			✓	
	✓			✓			✓	
Propane Conduit LPG-01	Good	Fair	Poor	Yes	No	Yes	No	
	✓			✓			✓	
Clean Out Lids COL-01 COL-02 COL-03 COL-04	Good	Fair	Poor	Yes	No	Yes	No	(COL - inner GASKET and outer SILICONE)
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
Other Features Curb & Gutter Trans. Thickened HMA Edge AC to PCC Trans. PCC Slab to HMA Trans. WSDOT Transverse Joint	Good	Fair	Poor	Yes	No	Yes	No	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
Misc Extruded Curb AC Cap Edge Interior Fence (P1) Exterior Fence EPA Signage	Good	Fair	Poor	Yes	No	Yes	No	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓	✓	—	—	✓	✓	✓	Vehicles hitting FENCE ALONG MAIN ST

Misc. notes: ♦ UNKNOWN CONTRACTORS FROM 2A (CLINIC) DUMPING CONSTRUCTION DEBRIS UNDER FENCE & ONTO T.I.C. #7.

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE:

2/20/14

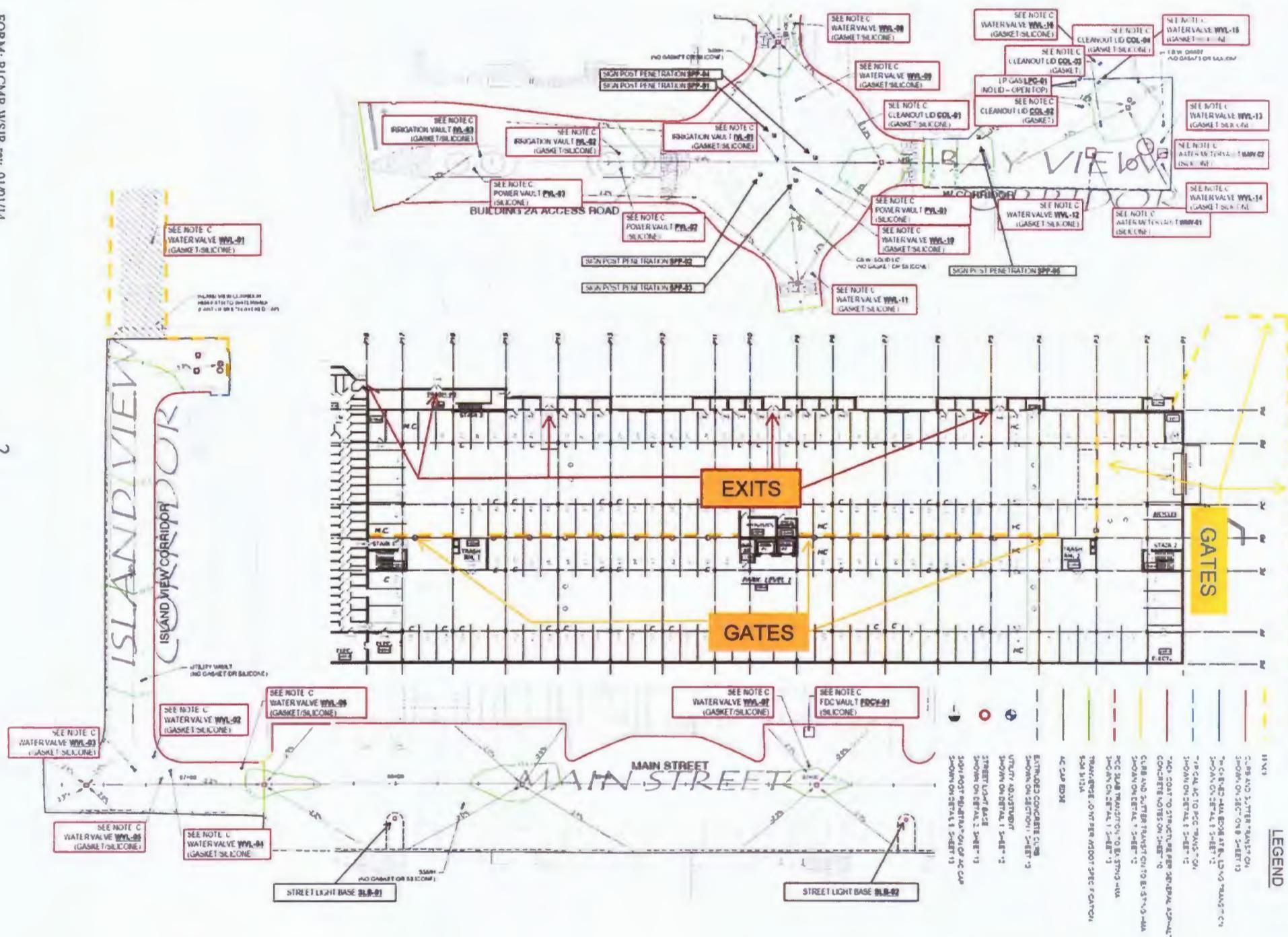
SIGNED:

REVIEWED: DATE:

2/23/14

SIGNED:

3





2014/02/18

Building 2BE Progress



2014/02/18

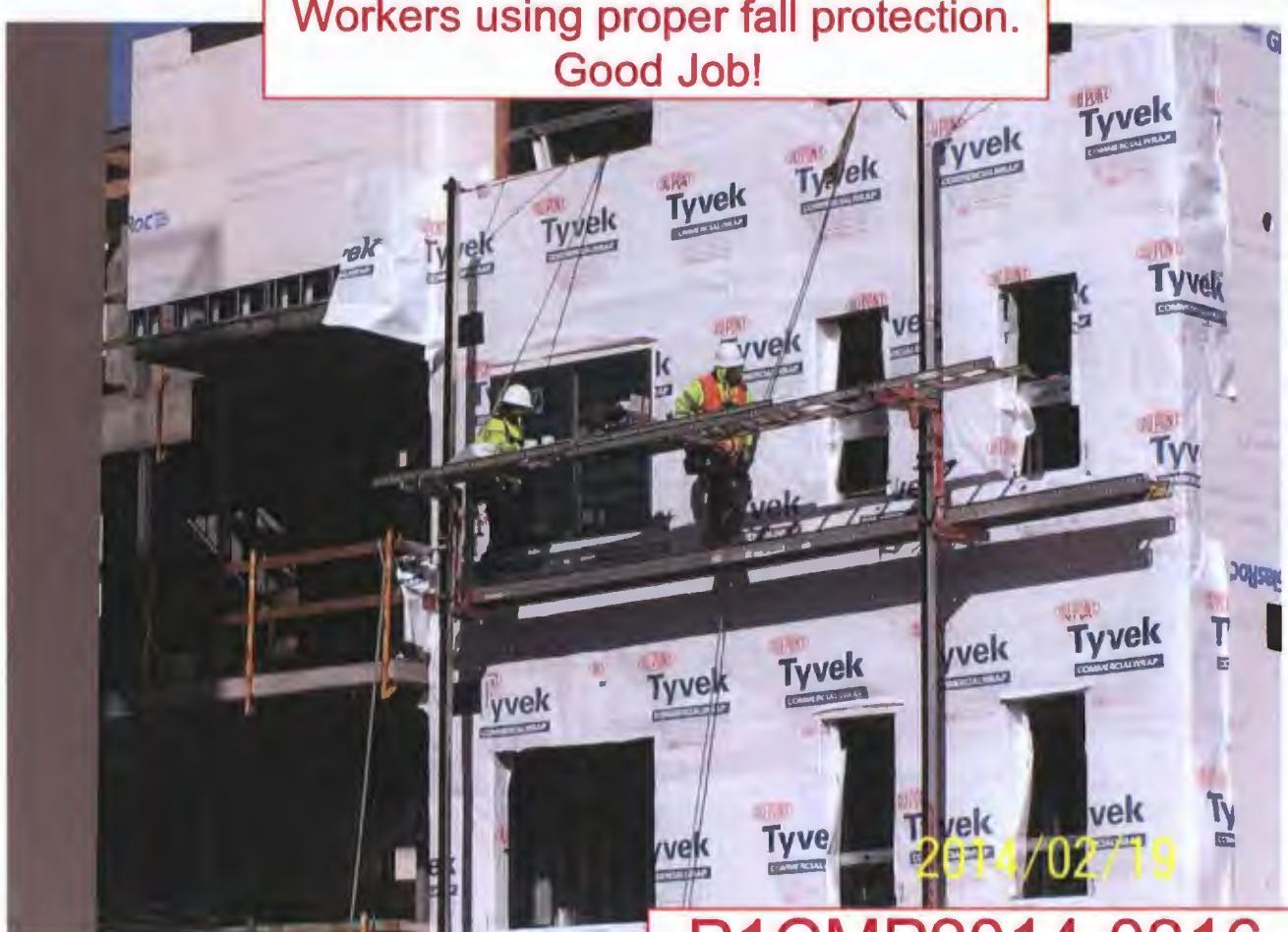
P1CMP2014-0216

Fall Protection Required in Telescoping Boom Lift & on Scaffolding



2014/02/19

2BE - Spot Safety check.
Workers using proper fall protection.
Good Job!



P1CMP2014-0216





**Subcontractor vehicle compromising perimeter fence.
Occurs frequently with various contractors, visitors & tenants.**



P1CMP2014-0216



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P1CMP2014-0216



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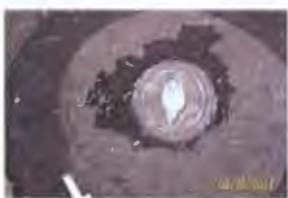
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P1CMP2014-0216



(WEEKLY)

PHASE 2 CMP

Weekly Site Inspection Report No. P2CMP2014-0216Week of: 02/16 - 02/22, 2014Inspector: Harry Slaughter

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION (✓ CHECK ONE)			NEED REPAIR? (✓ CHECK ONE)	COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No
Air Monitors: Hi-Vol Lot 1 TSP (ES1) TSP (ES2) 2A roof Personal Air Monitoring	/				/
	/				/
	/				/
	/				/
Signage: Gates Perimeter Safety	Good	Fair	Poor	Yes	No
	/				/
	/				/
	/				/
Security: Locks Alarms Cameras	Good	Fair	Poor	Yes	No
	/				/
	/				/
	/				/
BMPs: Tackifier Silt Fence Wattles (Other)	Good	Fair	Poor	Yes	No
	/				/
	/				/
	/				/
Fencing: 6' Security Fence Wind Fence Exclusion Zone CRZ Gate Lock	Good	Fair	Poor	Yes	No
	/				/
	/				/
	/				/
Stockpiles: Plastic Packed	Good	Fair	Poor	Yes	No
	/				/
	/				/
	/				/
Dust: Traffic areas Excavation area (Other)	Good	Fair	Poor	Yes	No
	/				/
	/				/
Personnel: Properly Trained Coveralls Hard Hats ID Badges (Other)	Good	Fair	Poor	Yes	No
	/				/
	/				/
	/				/
	/				/
					See Notes

PHASE 2 CMP - Weekly Site Inspection Report No. P2CMP2014-0216
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION (✓ CHECK ONE)			NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	
CRZs:						
Sign(s)	✓				✓	
Water Truck	✓				✓	
Flat Shovel	✓				✓	
Wisk Broom	✓			✓		
Boot Brush	✓			✓		
Boot Washes	✓			✓		
Cobble Ballast	✓			✓		
Drainage (Other)	✓			✓		
Haul Roads:	Good	Fair	Poor	Yes	No	
Grand Ave. (Other)	✓			✓		

Misc. notes: (See Daily Inspection Checklists Attached)

All personnel have current badges
Point Ruston and Subs & Excavation, Site Prep

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 2/21/2014 SIGNED: Henry J. Young

H&S OFFICER: DATE: 2/23/14 SIGNED: [Signature]



PHASE 2 CMP

Informal Daily Inspection Checklist No. P2CMP(D)2014-0217

Date: 02 117, 2014

Inspector: Harry Slawson

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	CHECKED (✓ CHECK ONE)		NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Yes	No	Yes	No	
Air Monitors	✓				
Lunch Room	✓			✓	
Coverall Room	✓			✓	
First Aid		✓		✓	
Fire Extinguishers		✓			
Signage		✓		✓	
Tackifier		✓			
Security Fence	✓			✓	
Wind Fence	✓			✓	
E.Z. Fence	✓			✓	Repaired
Stockpiles	✓			✓	
Dust	✓			✓	
CRZs	✓			✓	locked no work in lot #1
Haul Roads	✓			✓	
Building Materials	✓			✓	
Boot Washes	Qty. in use 6	✓		✓	
Hand Wash	Qty. in use 1	✓		✓	
Porta Potties	Qty. in use 2	✓		✓	
Personnel	Company:	Number of Workers	COMMENTS/OBSERVATIONS		
	P.Rusten	7	Site maintenance		
	E.J. Gov	1	Site Check		
	HYDRO-Melt	1	Site Check		

Misc. notes: Site Crew Installed pumps in Sump
Lot #17.

INSPECTOR: DATE: 2/17/2014

SIGNED: Harry Slawson



(DAILY)

PHASE 2 CMP

Informal Daily Inspection Checklist No. P2CMP(D)2014-0218

(MM)

(DD)

Date: 02 18, 2014

Inspector: Harry Slaney

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	CHECKED (✓ CHECK ONE)		NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Yes	No	Yes	No	
Air Monitors	✓			✓	
Lunch Room	✓			✓	
Coverall Room	✓		✓		
First Aid	✓		✓		
Fire Extinguishers	✓		✓		
Signage	✓		✓		
Tackifier	✓		✓		
Security Fence	✓		✓		
Wind Fence	✓		✓		
E.Z. Fence	✓		✓		
Stockpiles	✓		✓		
Dust	✓		✓		
CRZs	✓		✓		
Haul Roads	✓		✓		
Building Materials	✓		✓		
Boot Washes	Qty. in use 6	✓	✓		
Hand Wash	Qty. in use 1	✓	✓		Serviced today
Porta Potties	Qty. in use 2	✓	✓		Serviced today
Personnel	Company:	Number of Workers	COMMENTS/OBSERVATIONS		
	P.R.	6	Site Maintenance		
	Hydecorp	1	Site Check		
	E.I. Gov	1	Site Maintenance Check		

Misc. notes: Pumps set up on lot #17/18 to facilitate drawings for storm water

INSPECTOR: DATE: 2/18/2014

SIGNED: Harry Slaney



(DAILY)

PHASE 2 CMP

Informal Daily Inspection Checklist No. P2CMP(D)2014-0219

Date: 02 19, 2014

Inspector: Harry Skeeg Jr.

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	CHECKED (✓ CHECK ONE)		NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Yes	No	Yes	No	
Air Monitors	✓			✓	
Lunch Room	✓			✓	
Coverall Room	✓			✓	
First Aid	✓			✓	
Fire Extinguishers	✓			✓	
Signage	✓			✓	
Tackifier	✓			✓	
Security Fence	✓			✓	
Wind Fence	✓			✓	
E.Z. Fence	✓			✓	
Stockpiles	✓			✓	
Dust	✓			✓	
CRZs	✓			✓	
Haul Roads	✓			✓	
Building Materials	✓			✓	
Boot Washes	Qty. in use 10	✓		✓	
Hand Wash	Qty. in use 1	✓		✓	
Porta Potties	Qty. in use 2	✓		✓	
Personnel	Company:	Number of Workers		COMMENTS/OBSERVATIONS	
	P.R.	6		Site Maintenance	
	E.I.Gov	1		Site Check	
	HYDROMETRIC	1		Site Check	

Misc. notes:

INSPECTOR: DATE: 2/19/2014

SIGNED: Harry J. Skeeg Jr.



(DAILY)

PHASE 2 CMP

Informal Daily Inspection Checklist No. P2CMP(D)2014-0224Date: 02 / 20, 2014Inspector: Harry Slaughter

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	CHECKED (✓ CHECK ONE)		NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Yes	No	Yes	No	
Air Monitors	✓			✓	
Lunch Room	✓			✓	
Coverall Room	✓			✓	
First Aid	✓			✓	
Fire Extinguishers	✓			✓	
Signage	✓			✓	
Tackifier	✓			✓	
Security Fence	✓			✓	
Wind Fence	✓			✓	
E.Z. Fence	✓			✓	WINDY
Stockpiles	✓			✓	
Dust	✓			✓	
CRZs	✓			✓	
Haul Roads	✓			✓	
Building Materials	✓			✓	
Boot Washes	Qty. in use 6	✓		✓	
Hand Wash	Qty. in use 1	✓		✓	
Porta Potties	Qty. in use 2	✓		✓	
Personnel	Company:	Number of Workers	COMMENTS/OBSERVATIONS		
	P.R.	6	Site Maintenance / Prep		
	E.I Gov	1	Site Check		
	Hydrometric	1	Site Check		

Misc. notes:

INSPECTOR: DATE: 2/21/2014SIGNED: H. S.



(DAILY)

PHASE 2 CMP

Informal Daily Inspection Checklist No. P2CMP(D)2014-02/21

Date: 02/21, 2014

Inspector: Harry Slaughter

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	CHECKED (✓ CHECK ONE)		NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Yes	No	Yes	No	
Air Monitors	✓		✓		
Lunch Room	✓		✓		
Coverall Room	✓		✓		
First Aid	✓		✓		
Fire Extinguishers	✓		✓		
Signage	✓		✓		
Tackifier	✓		✓		
Security Fence	✓		✓		
Wind Fence	✓		✓		
E.Z. Fence	✓		✓		
Stockpiles	✓		✓		
Dust	✓		✓		
CRZs	✓		✓		
Haul Roads	✓		✓		
Building Materials	✓		✓		
Boot Washes	Qty. in use <u>8</u>	✓			Water being changed 6(X) daily
Hand Wash	Qty. in use <u>1</u>	✓			Serviced today
Porta Potties	Qty. in use <u>2</u>	✓			Serviced today
Personnel	Company:	Number of Workers	COMMENTS/OBSERVATIONS		
	P. Ruston	8	Excavation / Site prep -		
	E. Green	3	Excavation / Site prep -		
	E. J. Giv	1	Site Check		
	Hydrometrics	2	Site Check		
	Chamhill	2	Site Check		
	TRINITY	2	Water proof test on Wm		

Misc. notes:

INSPECTOR: DATE: 2/21/2014

SIGNED: Harry J. Slaughter



(DAILY)

PHASE 2 CMP

Informal Daily Inspection Checklist No. P2CMP(D)2014-0222

Date: 2/22, 2014 (MM) (DD)

Inspector: Tim RUSHER

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	CHECKED (✓ CHECK ONE)		NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Yes	No	Yes	No	
Air Monitors	✓		✓		CHANGED LOT 8 FILTER / ESJ IN USE
Lunch Room	✓		✓		
Coverall Room	✓		✓		
First Aid	✓		✓		
Fire Extinguishers	✓		✓		
Signage	✓		✓		NEED A FEW MORE E.Z. SIGNS AROUND SITE
Tackifier		✓	✓		NOT NEEDED - WET SOIL CONDITIONS
Security Fence	✓		✓		
Wind Fence	✓		✓		
E.Z. Fence	✓		✓		
Stockpiles	✓		✓		
Dust	✓		✓		WET SITE CONDITIONS
CRZs	✓		✓		
Haul Roads	✓		✓		
Building Materials	✓		✓		RUSTY WIRE FORMS SICKEN ON MULTIPLE CR
Boot Washes	Qty. in use 5	✓		✓	
Hand Wash	Qty. in use 1	✓		✓	
Porta Potties	Qty. in use 2	✓		✓	
Personnel	Company:	Number of Workers		COMMENTS/OBSERVATIONS	
	POINT RUSTON	5		EXCAVATION - LOT #1 + H+S OVERSIGHT	
	EVERGREEN	2		" " "	
	E.I. Gov.	1		OVERSIGHT (OCCASIONAL VISITS) TOE 2 VISITS PUCIANS, MIKE, LARRY, RONNIE (VISIT)	

Misc. notes: EXCAVATING FOR LOT #1 BUILDING. HAULING SPOILS TO LOT #18

AT GRAND PLAZA FOR FILE.

PERSONAL AIR MONITORING CONDUCTED

INSPECTOR: DATE:

2/22/14

SIGNED:



Wind Damage to Wind Fence
(Bottom sections mostly)



P2CMP2014-0216



Wind damage to E.Z. fence and portable toilet.



P2CMP2014-0216



P2CMP2014-0216



Phase 2 Construction Office Progress.



P2CMP2014-0216



02/20/2014



02/20/2014

Backfilling Plaza wall footing and grading for multi-layer cap



02/20/2014



02/20/2014

P2CMP2014-0216



Phase 2 - Lot 1
Start Excavation



Removing old HiVol gravel pad



P2CMP2014-0216



02/22/2014



02/22/2014

**Wet Soil Conditions
Natural Dust Control**



02/22/2014



02/22/2014

P2CMP2014-0216



02/22/2014

Excavated Area on Lot #1
Soils damp/moist



02/22/2014



02/22/2014



02/22/2014

P2CMP2014-0216



Soil Placement in Grand Plaza Area



P2CMP2014-0216

Haul Truck Transporting and Dumping Waste Soils



02/22/2014

Exposure Evaluation (Personal Air Monitoring)
Representative Samples for Each Activity



Excavator Loading
Waste Soils

02/22/2014

Dozer Grading
Waste Soils

02/22/2014

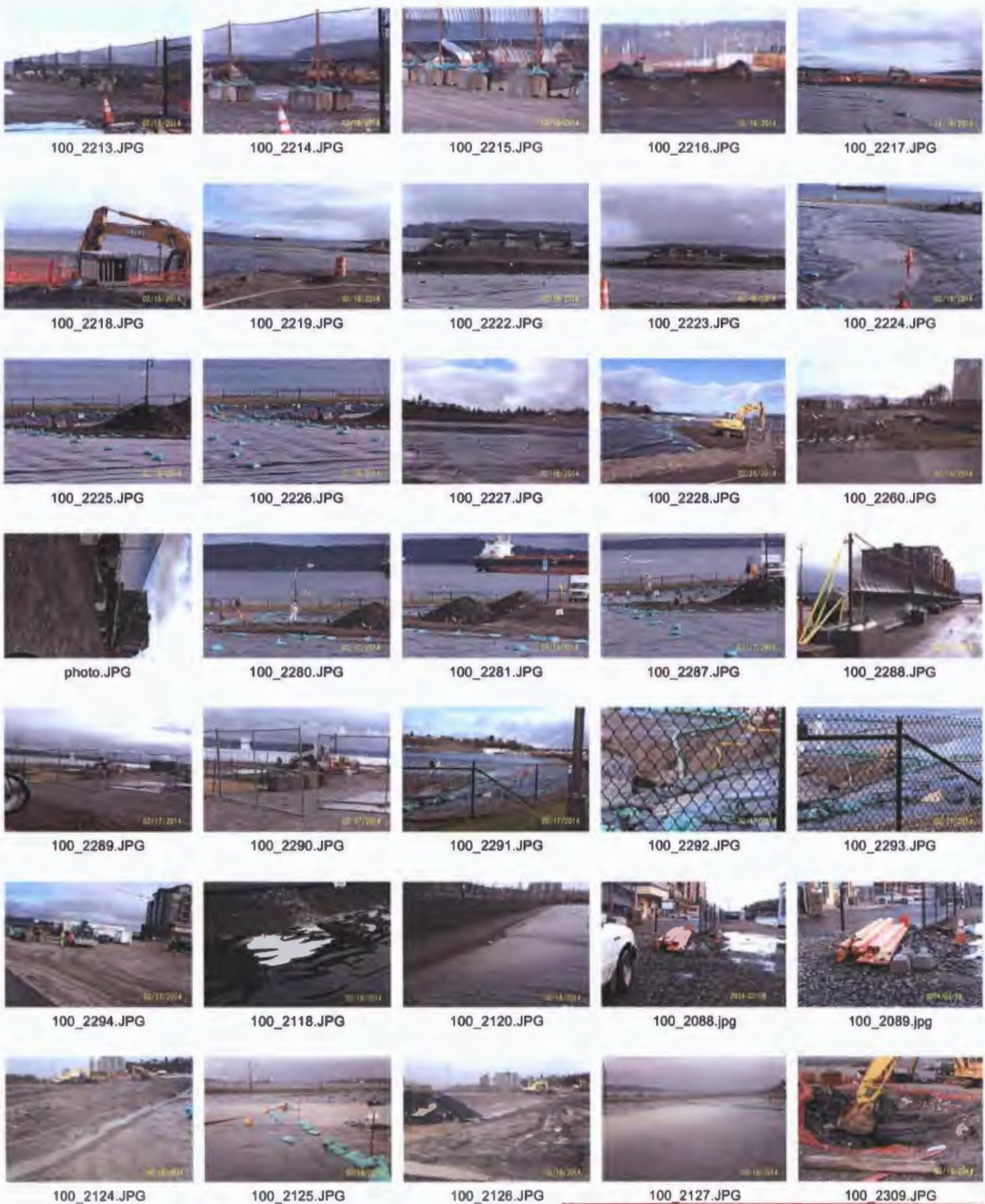
P2CMP2014-0216



Grade-Hop Working in
Waste Soils

02/22/2014





P2CMP2014-0216



P2CMP2014-0216



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P2CMP2014-0216



STREETS / MICMP

Weekly Site Inspection Report No. MICMP 2014- 0216

Week of: 02/16 - 02/22, 2014 Inspector: Harry Slawinski

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION (✓ CHECK ONE)			NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
Streets:	Good	Fair	Poor	Yes	No	
Surface	✓				✓	
Paint		✓			✓	
Splitter Islands	✓			✓		See Notes / Pics
Barricades	✓					
Signage:	Good	Fair	Poor	Yes	No	
Trespass	✓				✓	
Advisory	✓				✓	
Traffic	✓				✓	
Marketing	✓				✓	
Development Sign	✓				✓	
Public Notice	✓				✓	
Street Lights:	Good	Fair	Poor	Yes	No	
Ruston Way	✓	✓		✓		1 POLE DAMAGED BY HIT + RUN @ GRAND R.A. BS
51st Street	✓				✓	
Baltimore	✓			✓		BANNER MISSING ON 1 POLE
Court	✓				✓	
Commercial	✓				✓	
Villard	✓				✓	
Yacht Club	✓			✓		Base Needs to be Reset / Pic
Junction Boxes	✓				✓	
Storm Drains:	Good	Fair	Poor	Yes	No	
Curb/Gutter	✓				✓	See Notes / Pic
CBs	✓				✓	See PICS
Filterras	✓				✓	
Sidewalks:	Good	Fair	Poor	Yes	No	
Concrete	✓				✓	See Note
Paint	✓				✓	
Crossings	✓				✓	
Warning Strips		✓			✓	Needs touch up
Bollards	✓				✓	
Landscaping:	Good	Fair	Poor	Yes	No	
Trees	✓				✓	
Plants	✓				✓	
Sprinkler	✓				✓	
Bark/Mulch	✓				✓	
Roundabouts:	Good	Fair	Poor	Yes	No	
Grand	✓				✓	
Yacht Club	✓				✓	

STREETS - Weekly Site Inspection Report No.

MICMP 2014-0216

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION (✓ CHECK ONE)			NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	
Features:						
Wall/Rail (Other)	✓			✓		
Gates:	Good	Fair	Poor	Yes	No	
51 st St – (Pond)	✓			✓		
Roundabout – (Pond)	✓			✓		
Roundabout – (Lot 12)	✓			✓		
Roundabout – (Lot 10)	✓			✓		
Ruston Way – (Lot 10)	✓			✓		
BNSF Access	✓			✓		
OSW02 – (Ruston)	✓			✓		
52 nd – (OCF Vault 2)	✓			✓		
Yacht Club - (Cascade)	✓			✓		
Yacht Club – (Vault)	✓			✓		
Yacht Club – (Lot 11)	✓			✓		
Yacht Club – (Lot 14)	✓			✓		
Yacht Club – (MMZ)	✓			✓		
Other:	Good	Fair	Poor	Yes	No	
Jersey Barriers	✓			✓		
Baltimore Bridge	✓			✓		
Yacht Club – Steep Slope (Other)	✓			✓		

Misc. notes: Splitter Islands: All have moss, weeds, grass growing.
 Sidewalks: Cracks
 Curb/Gutter/CBs: Curb cracks, chips, Baltimore & Commercial
 Sediment Villard & Court:

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 02/20/2014 SIGNED: Harry S. Sharp

REVIEWED: DATE: 2/23/14 SIGNED: [Signature]



Light Pole damage
Occurred Saturday night or Sunday morning



MICMP2014-0216

Damage to bottom of light pole



02/17/2014

Debris cleaned up



02/17/2014

MICMP2014-0216



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MICMP2014-0216



TEMPORARY IMPERMEABLE CAP

Weekly Site Inspection Report No. TIC 2014-0216

(MM) (DD) (MM) (DD)
Week of: 02/16 - 02/22, 2014

Inspector: Harry Shugster

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			CLEAN?		NEED REPAIR?		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	Yes	No	
Lot 1 Geomembrane (03/10/13) Sand Bag Cover (07/10/13) Anchor Edge Berm Drainage Other	/	/	/	/	/	/	/	Removed for Construction Removed for Construction Sutures cut for Drainage
Lot 3 Geomembrane (03/04/13) Sand Bag Cover (07/02/13) Anchor Edge Berm Drainage Other	/	/	/	/	/	/	/	35% Need to be replaced
Lot 4 Geomembrane (12/11/12) Sand Bag Cover (07/02/13) Anchor Edge Berm Drainage Patch (1:05/15/13) Other	/	/	/	/	/	/	/	40% Need to be replaced Pic
Lot 5 (02/11/13) / 6 (01/17/13) Geomembrane Sand Bag Cover (07/02/13) Anchor Edge Berm Drainage Patches (2:05/10/13;1:06/12/13) Other	/	/	/	/	/	/	/	Pic
Lot 7 Geomembrane (01/03/13) Sand Bag Cover (07/10/13) Anchor Edge Berm Drainage Other	/	/	/	/	/	/	/	Pic / Compound / material Pic Pooling / ponding
Lot 9/11 Geomembrane (04/05/13) Sand Bag Cover (07/05/13) Anchor Edge Berm Drainage Other POND	/	/	/	/	/	/	/	Pics / water level / high

TEMPORARY CAP - Weekly Site Inspection Report No. TIC 2014-0216
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			CLEAN?		NEED REPAIR?		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	Yes	No	
Lot 12 Geomembrane (04/23/13) Sand Bag Cover (07/10/13) Anchor Edge Berm Drainage Other	/	/	/	/			/	
Lot 14 Geomembrane (10/17/13) Sand Bag Cover (10/18/13) Anchor Edge Berm (10/22/13) Drainage Block Wall	/	/	/	/	/	/	/	Pic / EROSION / Run-off
Lot 16 Geomembrane (04/16/13) Sand Bag Cover (12/05/13) Anchor Edge Berm Drainage Other	/	/	/	/	/	/	/	Partial TIC (Temp Gravel Cap -
Lot 17/18 Geomembrane (04/13/13) Sand Bag Cover (07/09/13) Anchor Edge Berm Drainage Other Pumps	/	/	/	/	/	/	/	Fuel, Material, Equipment See Notes
MMZ (Lot 15) Gravel Stock Pile Sand Bags On Hand T.I.C. Repair Kit Other Sumps	/	/	/	/	/	/	/	

Misc. notes: Lot # 17/18 : Partial TIC Removed for site prep /
 Drainage : pumps were set up on lots # 9/11 and 17/18
 to facilitate drainage

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE:

2/18/2014

SIGNED:

Harry J. Shue

REVIEWED: DATE:

2/23/14

SIGNED:

[Signature]



Storm water retention pond at full capacity.



TIC2014-0216



TIC2014-0216



Status of liner patches



TIC2014-0216



02/18/2014

TIC #14 - Sediment from OCF slope
& Metro Parks storm water runoff



02/18/2014

TIC2014-0216



02/18/2014

TIC #7 - Unknown debris assumed dumped by contractor at
Copperline Apartments

TIC2014-0216



TIC2014-0216



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TIC2014-0216



Weekly Site Inspection Report No. WW 2014-0216

Week of: 02/16 - 02/22, 2014 Inspector: Harry Saenger
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION (✓ CHECK ONE)			NEED REPAIR? (✓ CHECK ONE)	COMMENTS/OBSERVATIONS
	Good	Fair	Poor		
Paths:					
Asphalt	✓				
Gravel					
Trail to M.P.					
Signage:					
Perimeter/Trespass	✓				
Perimeter/"No Access"	✓				
Park Rules					
(Other)					
Street Lights:					
Junction Boxes	✓	✓		✓	See Notes Bases changed / See Notes
Poles					
Bulbs	✓				
Banners	✓				
Storm Drains:					
Area Drains	✓				
Clean Outs					
Octopus:					
Tile	✓				
Grout					
Paint					
Intersection #1:					
Tile	✓				
Grout					
Paint					
Intersection #2:					
Tile	✓				
Grout					
Paint					
Intersection #3:					
Tile	✓				
Grout					
Paint					
Intersection #4:					
Tile	✓				
Grout					
Sprinkler:					
Heads	✓				
Valve Boxes					

WATERWALK - Weekly Site Inspection Report No. WW 2014-0216
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION (✓ CHECK ONE)			NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	
Landscaping:						
Trees	✓				✓	
Plants	✓				✓	
Grass		✓		✓		
Bark/Mulch	✓			✓		See Notes
Hardware:						
Cleat Benches	✓				✓	
Metal Benches	✓				✓	
Tables	✓				✓	
Trash Cans	✓				✓	
Gates:						
Ferry – Struts	✓				✓	
TIC – Lots 3/4	✓				✓	
Intersection #1	✓				✓	
Intersection #2	✓	✓			✓	
Middle Outfall	✓			✓		
Intersection #4	✓				✓	
North Outfall	✓				✓	
Peninsula - North	✓				✓	
Grand Plaza:						
Lights	✓				✓	
Concrete	✓				✓	
Rails	✓				✓	
Big Toy:						
Block Wall	✓			✓		
Sign	✓				✓	
Boardwalk/Benches	✓				✓	
Swings	✓				✓	
Chips	✓			✓		
Other:						
Bollards	✓				✓	
Coyotes						N/A
Tide Pool	✓				✓	
Misc. notes (use continuation sheet if necessary): TRACKS ON GRASS @ Intersection #3 - light pole bases changed						

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE:

2/19/2014

SIGNED:

Harry J. Shugard

REVIEWED: DATE:

2/23/14

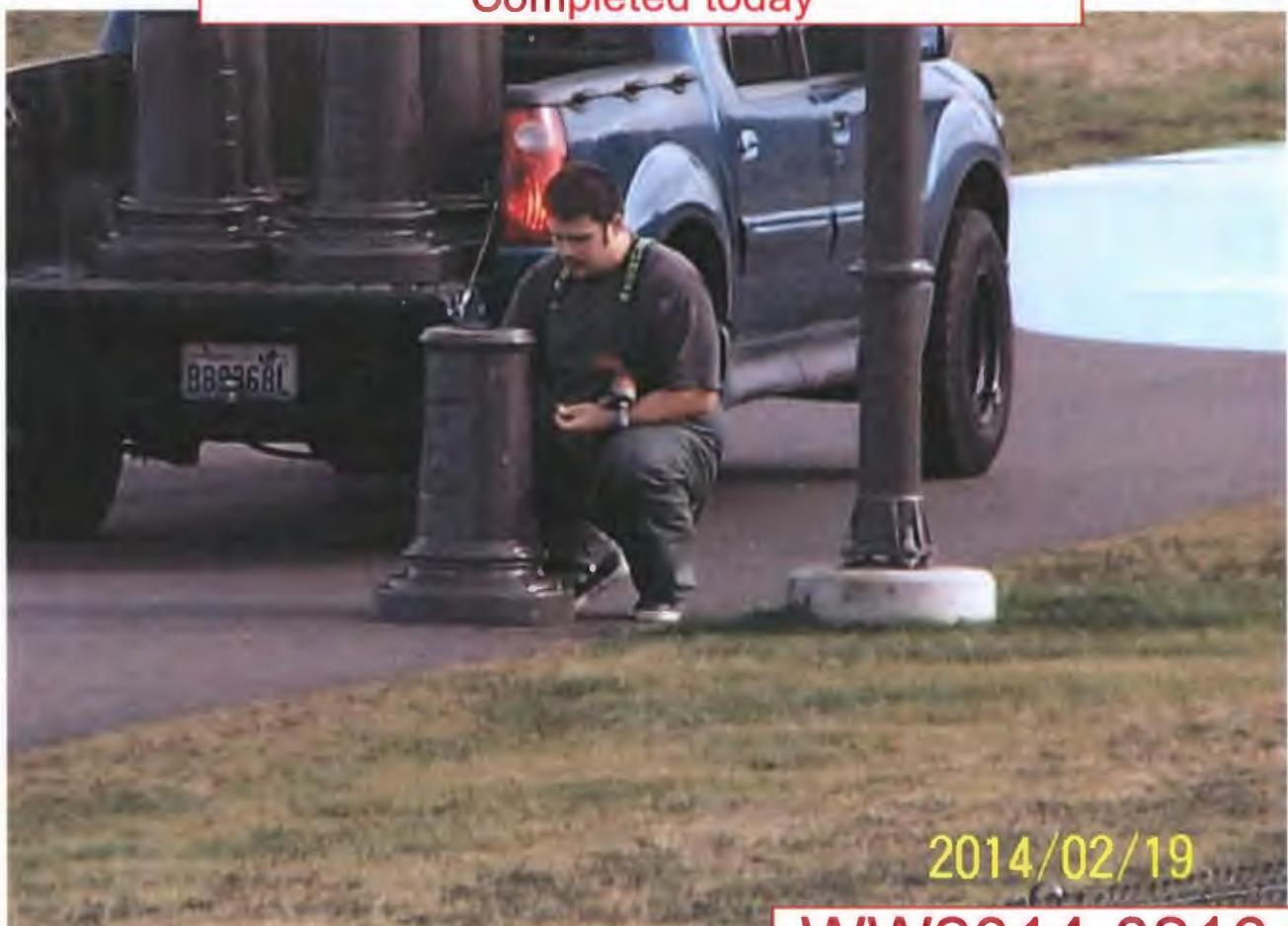
SIGNED:

[Signature]



2014/02/19

Waterwalk Light Pole Base Change Out
Completed today



2014/02/19

WW2014-0216



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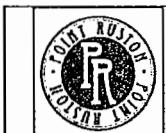


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WW2014-0216



PENINSULA

Weekly Site Inspection Report No. PEN 2014-0216

Week of: 2/11/14 - 2/22/2014 Inspector: Pat W. LIBER

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION (✓ CHECK ONE)			NEED REPAIR? (✓ CHECK ONE)	COMMENTS/OBSERVATIONS
Fence: Yacht Club Storage Waterwalk EPA Signage	Good	Fair	Poor	Yes	No
	✓				✓
	✓				✓
	✓				✓
Source Area: Drainage BMPS Fence	Good	Fair	Poor	Yes	No
	✓				✓
	✓				✓
	✓				✓
BMPs: Plastic Cover Sand Bags Wattles Silt Fence	Good	Fair	Poor	Yes	No
	✓				✓
	✓				✓
	✓				✓
Peninsula Liner: Geomembrane Soil Cover Marker Fabric Soil Cap Drainage	Good	Fair	Poor	Yes	No
	✓				✓
	✓				✓
	✓				✓
	✓				✓
Other Features: Shoreline Armoring Habitat Basin City Outfall Hydro Seed	Good	Fair	Poor	Yes	No
	✓				✓
	✓				✓
	✓				✓
	✓				✓

Misc. notes:

Soil soft - ~~slope areas~~ slope areas very soft

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 2/19/14 SIGNED: Pat W. LIBER

H&S OFFICER: DATE: 2/23/14 SIGNED: [Signature]

PEN2014-0216



Plastic in this area is bulging & pulled through sandbags. Remove or repair as needed.



NOTES:	= Cap repairs needed	= Cap repairs to monitor (Soil patch 12/6)	= Cap repairs to monitor (Plastic & sandbags 10/24)	= "No Access" signs
	= Unauthorized vehicle traffic (Tire ruts at edge of cap & pavement) Occurred 12/4 – 12/11	= Unauthorized vehicle traffic (Tire ruts on side of slope) Occurred 11/8 – 11/14		
10/25/13 – Major erosion repairs completed. Moderate erosion repairs pending.				
11/02/13 – Wind storm damaged BMPs as noted on Site Plan PEN2013-1103(a)				
11/04/13 – 11/05/13: Repairs to BMPs completed as noted on Site Plan PEN2013-1103(b)				
11/08/13: Removed perimeter construction fence along marina road. A section of permanent fence remains near Club House parking.				
12/09/13: Added wattles added as needed to protect smaller erosion locations. Patched smaller accessible erosion rills.				
01/10/14: Silt fence at Yacht Club gravel parking area needs to be tied up.	01/13/14: Loose plastic at grids K/L-3/4 repaired with additional sand bags			



Sagging silt fence.
May not be needed as grass on slope is rooted.



Peninsula Status
Things to monitor or repair



Bilowing plastic ripped through sandbags.
May not be needed as grass is rooted.
Repair or remove as needed.



PEN2014-0216



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PEN2014-0216



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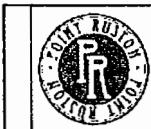


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PEN2014-0216



GENERAL SITE

Weekly Site Inspection Report No. GEN 2014- 0223

Week of: 02/23 - 03/01, 2014 Inspector:

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION (✓ CHECK ONE)			NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
Gates:	Good	Fair	Poor	Yes	No	(See "Streets" Report for additional gates)
Grand Ave (electric)	✓				✓	
54 th Street (electric)	✓				✓	
Bennett St (2 old single)	✓				✓	
Bennett St (old double)	✓				✓	
52 nd Street (temp panel)	✓				✓	
Signage:	Good	Fair	Poor	Yes	No	
Gates	✓				✓	
Perimeter	✓				✓	
Safety	✓				✓	
Security:	Good	Fair	Poor	Yes	No	3/24 VEHICLE VANDALISM/THEFT AT FERRY PARKING
Locks	✓				✓	
Alarms	✓				✓	
Cameras		✓			✓	
BMPs:	Good	Fair	Poor	Yes	No	
Silt Fence	✓				✓	STACK HILL
Wattles	✓				✓	"
(Other)						
Nursery:	Good	Fair	Poor	Yes	No	
Plants	✓				✓	
Sprinkler	✓				✓	
Weeds	✓				✓	
Stockpiles:	Good	Fair	Poor	Yes	No	
Plastic	✓				✓	STACK HILL
Packed	✓				✓	
Dust:	Good	Fair	Poor	Yes	No	
Traffic areas	✓				✓	
Excavation area	✓				✓	
Fencing:	Good	Fair	Poor	Yes	No	
Site Perimeter	✓				✓	
Zone Separation	✓				✓	
CRZs:	Good	Fair	Poor	Yes	No	
PHASE 2	✓				✓	
Boot Washes	✓				✓	
Haul Roads:	Good	Fair	Poor	Yes	No	
Main Street (east)	✓				✓	
Main Street (west)	✓				✓	
Grand Ave.	✓				✓	
MMZ area (Lot 15)	✓				✓	

GENERAL SITE - Weekly Site Inspection Report No. GEN 2014-0223

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Misc. notes:	◆ 2/24 Assist D.E.A. AGENTS WITH A.T.L.
◆ WORK IN OFFICE Preparing New Location For Network Computer Equip.	
◆ MANUAL UNLOCK FOR 23 E GATE IS BROKEN. WORKS W/MOTOR ONLY.	
◆ 2/28 POWER OUTAGE At ES 1 + LOT #8 HiVol. USED GENERATOR UNTIL POWER REPAIRED & RESTORED. OFF About 1/2 HR. 8:30-9:00. GENERATOR 9:00-14:52.	
◆ 3/1 OBSERVED Suspicious Person Messing Around With Fence On TRML. Turned Out To Be Geocache Hunter. (No Problem)	

Air Monitoring:

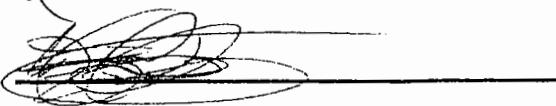
Day of Week	Hi-Vol QTY	Real Time	24-hr Avg $\mu\text{g}/\text{m}^3$	Personal QTY	Portable QTY	Air Monitoring Notes	
Sun 23	5	2	2.4	4	Ø	Excavate Lot #1 Load/Haul to Grand Plaza	
Mon 24	5	3	0.7	Ø	Ø	Site Maintenance/Storm Water Management	
Tue 25	5	3	1.9	Ø	Ø	Storm Water Management/Site Maintenance	
Wed 26	5	3	2.7	Ø	Ø	Mostly Sunny/calm Breeze/Wet Soil Conditions	
Thu 27	5	3	3.9	Ø	Ø	Excavation on Lot #1/Stock Piling on Lot #18	
Fri 28	5	3	3.3	Ø	Ø	Excavating Lot #1/Stock Piling on Lot #18	
Sat 1	5	3	4.8	Ø	Ø	Excavation Lot #1/Build temp Road Inside Wind Fence	

DUST 2 PM →

WEATHER:

Day of Week	Summary of Weather Conditions						
	TEMPERATURE (F)		WIND (MPH)		RAIN (INCHES)	OTHER	
-LOW	HIGH	DIRECTION	AVERAGE	GUST			
Sun 23	38	46	SSW	3.3	11 .27	Cloudy all day w/afternoon & evening rain	
Mon 24	38	44	NNE	3	9 .49	Cloudy w/Rain fall all day	
Tue 25	40	53	NNE	4	11 Ø	Partly Cloudy Partly Sunny	
Wed 26	40	62	NW	2.2	10 Ø	Partly cloudy w/Sun break	
Thu 27	40	56	WNW	2	10 Ø	Partly cloudy w/sun break	
Fri 28	39	58	NNE	4	13 Ø	Mostly Sunny	
Sat 1	40	45	NE	3	10 .02	Mostly cloudy w/ Midday Drizzle	

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 3/2/14 SIGNED: H&S OFFICER: DATE: 3/2/14 SIGNED: 



Vehicle Prowl/Vandalism at Ferry Parking
11:30-1:30
Two Windows Broken - Purse Stolen



GEN2014-0223



Suspicious activity found to be Geocache hunter.



GEN2014-0223



PHASE 1

 Entered A.M. Scanned

Weekly Site Inspection Report No. P1CMP 2014-0223

Week of: 2/23 - 3/1, 2014

Inspector: Pat W. Becker

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			CLEAN?		NEED REPAIR?		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	Yes	No	
Gates				✓				(EPA Requires all gates to remain closed & locked)
Main Street – (East)	✓			✓			✓	
Main Street – (West)	✓			✓			✓	
Bay View – (Lot 3)	✓			✓			✓	
Bldg 2BE – (Electric)	✓			✓			✓	
Bldg 2A-P1 – (Parking)	✓			✓			✓	
Bldg 2A-P1 – (3 single)	✓			✓			✓	
Sign Post Penetrations	Good	Fair	Poor	Yes	No	Yes	No	
SPP-01 (roundabout)	✓			✓			✓	
SPP-02 (roundabout)	✓			✓			✓	
SPP-03 (roundabout)	✓			✓			✓	
SPP-04 (roundabout)	✓			✓			✓	
SPP-05 (Ramp to P1)	✓			✓			✓	
Street Light Base	Good	Fair	Poor	Yes	No	Yes	No	
SLB-01 (NW)	✓			✓			✓	
SLB-02 (SW)	✓			✓			✓	
Water Meter Vaults	Good	Fair	Poor	Yes	No	Yes	No	(WMV - outer SILICONE only)
WMV-01	✓			✓			✓	Reseal
WMV-02	✓			✓			✓	Reseal
Water Valve Lids	Good	Fair	Poor	Yes	No	Yes	No	(WVL - inner GASKET and outer SILICONE)
WVL-01	✓			✓			✓	
WVL-02	✓			✓			✓	
WVL-03	✓			✓			✓	
WVL-04	✓			✓			✓	
WVL-05	✓			✓			✓	
WVL-06	✓			✓			✓	
WVL-07	✓			✓			✓	
WVL-08	✓			✓			✓	
WVL-09	✓			✓			✓	
WVL-10	✓			✓			✓	
WVL-11	✓			✓			✓	
WVL-12	✓			✓			✓	
WVL-13	✓			✓			✓	
WVL-14	✓			✓			✓	
WVL-15	✓			✓			✓	
WVL-16	✓			✓			✓	(located in unfinished area between 2A & 2BE)
FDC Vault	Good	Fair	Poor	Yes	No	Yes	No	(FDCV - outer SILICONE only)
FDCV-01	✓			✓			✓	Care parked over lid
Irrigation Vault Lids	Good	Fair	Poor	Yes	No	Yes	No	(IVL - inner GASKET and outer SILICONE)
IVL-01	✓			✓			✓	
IVL-02	✓			✓			✓	
IVL-03	✓			✓			✓	

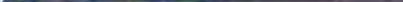
(LOCATION LAYOUT ON REVERSE)

PHASE 1 CMP - Weekly Site Inspection Report No. P1CMP 2014-0223
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			CLEAN?	NEED REPAIR?	COMMENTS/OBSERVATIONS		
	Good	Fair	Poor	Yes	No	Yes	No	
Power Vault Lids PVL-01 PVL-02 PVL-03	✓			✓		✓		(PVL - outer SILICONE only)
	✓			✓		✓		
	✓			✓		✓		
	✓			✓		✓		
Propane Conduit LPG-01	Good	Fair	Poor	Yes	No	Yes	No	
	✓			✓		✓		
Clean Out Lids COL-01 COL-02 COL-03 COL-04	Good	Fair	Poor	Yes	No	Yes	No	(COL - inner GASKET and outer SILICONE)
	✓			✓		✓		
	✓			✓		✓		
	✓			✓		✓		
	✓			✓		✓		
Other Features Curb & Gutter Trans. Thickened HMA Edge AC to PCC Trans. PCC Slab to HMA Trans. WSDOT Transverse Joint	Good	Fair	Poor	Yes	No	Yes	No	
	✓			—		✓		photo taken
	✓			✓		✓		
	✓			✓		✓		
	✓			✓		✓		
	✓			✓		✓		
	✓			✓		✓		
Misc Extruded Curb AC Cap Edge Interior Fence (P1) Exterior Fence EPA Signage	Good	Fair	Poor	Yes	No	Yes	No	
	✓			✓		—		
	✓			✓		✓		
	✓			—		✓		
	✓			✓		✓		
	✓			—		✓		

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 2/27/14 SIGNED: Jesse L. Lee

REVIEWED: DATE: 3/2/14 SIGNED: 



CONTINUATION SHEET

Weekly Site Inspection Report No. P1CNP 2013-0223

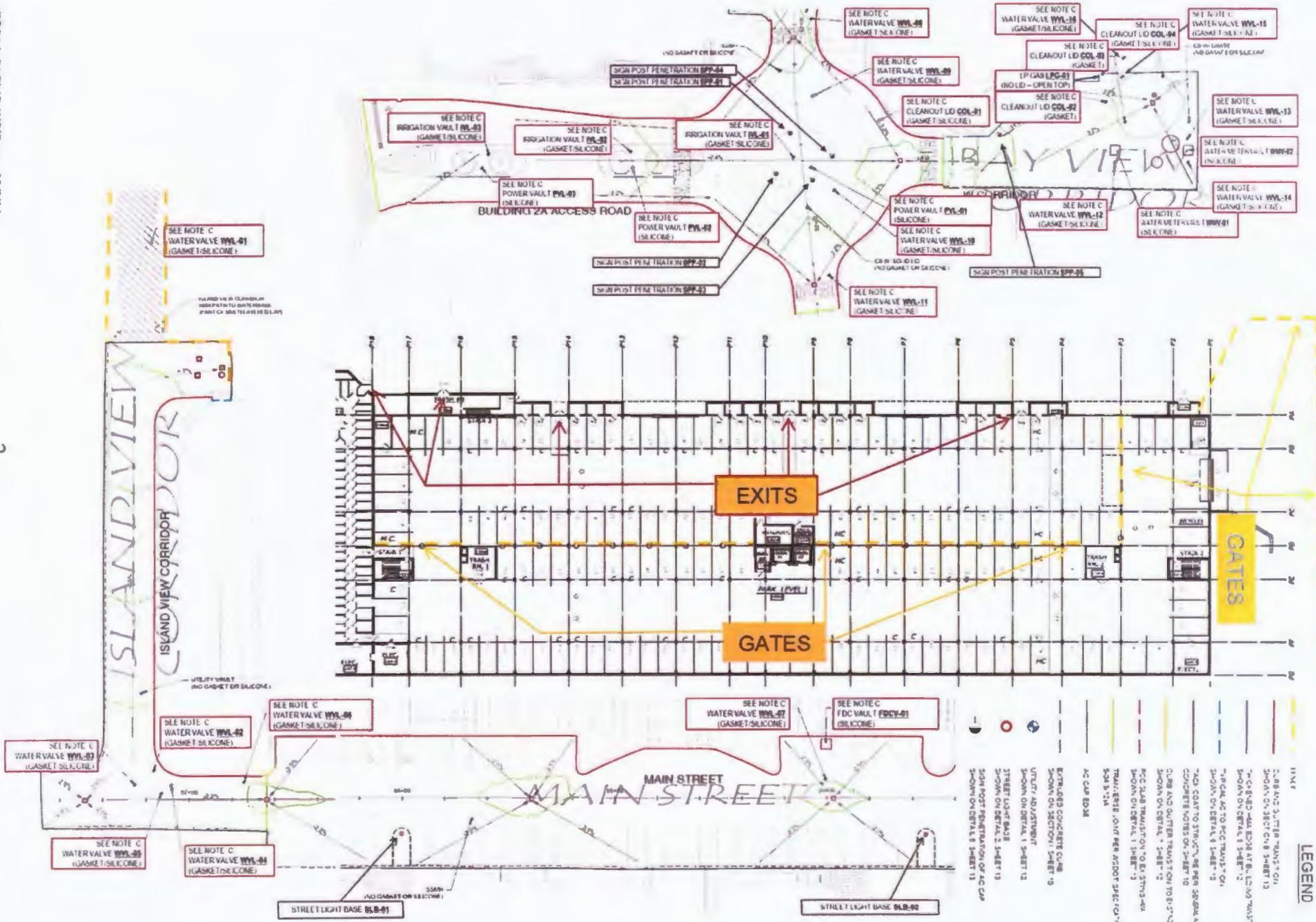
Week of: 02/23 - 03/01, 2013 Inspector: Harry Strength
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Misc. notes: P1CNP: WMV's 1 & 2 Completed 2/28/14
See Pics

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 2/28/2014 SIGNED: Harry J. Strength

H&S OFFICER: DATE: 3/2/14 SIGNED: [Signature]





Worker on roof of 2A



P1CMP2014-0223



Water damage in roof access room.
Apparently caused by roof hatch
being left open or unsecured.



P1CMP2014-0223



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P1CMP2014-0223



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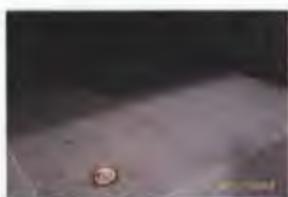
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P1CMP2014-0223



(WEEKLY)

PHASE 2

Entered A.M. Scanned

Weekly Site Inspection Report No. P2CMP2014-0223

Week of: 02/23 - 03/01, 2014 Inspector: Harry Slaughter

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION (✓ CHECK ONE)			NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	
Air Monitors:						
Hi-Vol Lot 1	✓				✓	
TSP (ES1)	✓				✓	
TSP (ES2) 2A roof	✓				✓	
Personal Air Monitoring	✓				✓	
Signage:						
Gates	✓				✓	
Perimeter	✓				✓	
Safety	✓				✓	
Security:						
Locks	✓				✓	
Alarms	✓				✓	
Cameras	✓				✓	
BMPs:						
Tackifier	✓				✓	
Silt Fence	✓				✓	
Wattles	✓				✓	
(Other)	✓				✓	
Fencing:						
6' Security Fence	✓				✓	
Wind Fence	✓				✓	
Exclusion Zone	✓				✓	
CRZ Gate Lock	✓				✓	
Stockpiles:						
Plastic	✓				✓	
Packed	✓				✓	
Dust:						
Traffic areas	✓				✓	Water applied by P.R. Site crew
Excavation area	✓				✓	
(Other)	✓				✓	
Personnel:						
Properly Trained	✓				✓	All work crews are current with site training
Coveralls	✓				✓	
Hard Hats	✓				✓	
ID Badges	✓				✓	
(Other)	✓				✓	

PHASE 2 CMP - Weekly Site Inspection Report No. P2CMP2014-0223
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION (✓ CHECK ONE)			NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	
CRZs:						
Sign(s)	✓				✓	
Water Truck	✓				✓	
Flat Shovel	✓				✓	
Wisk Broom	✓				✓	
Boot Brush	✓				✓	
Boot Washes	✓				✓	
Cobble Ballast	✓				✓	
Drainage (Other)	✓				✓	Ditch cut lot #1718 for drainage
Haul Roads:	Good	Fair	Poor	Yes	No	Being maintained by P.R. Site Crew
Grand Ave. (Other)	✓				✓	

Misc. notes: (See Daily Inspection Checklists Attached)

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 2/28/2014 SIGNED: Henry S. Slawo

H&S OFFICER: DATE: 3/2/14 SIGNED: 



(DAILY)

PHASE 2 CMP

Informal Daily Inspection Checklist No. P2CMP(D)2014-0223

(MM)

(DD)

Date: 2 / 23 , 2014

Inspector: Tim RUSHER, SR.

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	CHECKED (✓ CHECK ONE)		NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Yes	No	Yes	No	
Air Monitors	✓			✓	
Lunch Room	✓		✓		APPLIANCES NEED CLEANED, DOOR NEEDS ADJUSTED
Coverall Room	✓		✓		STEPS & DOOR NEED WORK
First Aid	✓			✓	
Fire Extinguishers	✓			✓	
Signage	✓		✓		NEED MORE E.Z. SIGNS AT GRAND
Tackifier		✓		✓	TOO MUCH RAIN - TACKIFIER NOT REQUIRED
Security Fence	✓			✓	
Wind Fence	✓			✓	
E.Z. Fence	✓			✓	
Stockpiles	✓			✓	
Dust	✓			✓	DAMP/WET SOIL CONDITIONS
CRZs	✓			✓	
Haul Roads	✓			✓	
Building Materials	✓			✓	
Boot Washes	Qty. in use 4	✓		✓	
Hand Wash	Qty. in use 1	✓		✓	
Porta Potties	Qty. in use 2	✓		✓	
Personnel	Company:	Number of Workers		COMMENTS/OBSERVATIONS	
	EVERGREEN	3			
	POINT RUSTON	5			
	E.I.Gov	1		PART TIME	

Misc. notes: LIGHT SOUTHERLY BREEZ IN A.M., RAIN STARTED AT ABOUT 12:30, SOIL CONDITIONS WET.

INSPECTOR: DATE:

2/23/14

SIGNED:



(DAILY)

PHASE 2 CMP

Informal Daily Inspection Checklist No. P2CMP(D)2014-0224

Date: 02 / 24, 2014

Inspector: Harry Shugster

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	CHECKED (✓ CHECK ONE)		NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Yes	No	Yes	No	
Air Monitors	/	/	/	/	
Lunch Room	/	/	/	/	
Coverall Room	/	/	/	/	
First Aid	/	/	/	/	
Fire Extinguishers	/	/	/	/	
Signage	/	/	/	/	Addled signs to E7 fence.GRAND
Tackifier	/	/	/	/	
Security Fence	/	/	/	/	
Wind Fence	/	/	/	/	
E.Z. Fence	/	/	/	/	
Stockpiles	/	/	/	/	
Dust	/	/	/	/	
CRZs	/	/	/	/	
Haul Roads	/	/	/	/	
Building Materials	/	/	/	/	
Boot Washes	Qty. in use <u>6</u>	/	/	/	Checked, changed water
Hand Wash	Qty. in use <u>1</u>	/	/	/	
Porta Potties	Qty. in use <u>2</u>	/	/	/	
Personnel	Company:	Number of Workers	COMMENTS/OBSERVATIONS		
	P.Ruston E.I Gov	6 1	Setting up more Wind fence Site Check		

Misc. notes:

INSPECTOR: DATE: 2/24/2014

SIGNED: Harry J. Shugster



(DAILY)

PHASE 2 CMP

Informal Daily Inspection Checklist No. P2CMP(D)2014-0225

Date: 02 125, 2014

Inspector: JENNIFER RUSHER

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	CHECKED (✓ CHECK ONE)		NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Yes	No	Yes	No	
Air Monitors	✓			✓	
Lunch Room	✓		✓		Clean MICRO. / NEEDS VAC.
Coverall Room	✓				SPRAYED BEES(1st room)
First Aid					
Fire Extinguishers					
Signage	✓		✓		ADDED SIGNS ON WEST PATIO(2A)
Tackifier	✓	✓			
Security Fence	✓		✓		
Wind Fence	✓				
E.Z. Fence	✓				
Stockpiles	✓		✓		NEED TACKIFIER
Dust	✓		✓		
CRZs	✓				
Haul Roads	✓				
Building Materials	✓		✓		
Boot Washes	Qty. in use 4	✓		✓	CLEANED OUT / ADDED CLEAN WATER
Hand Wash	Qty. in use 2	✓		✓	ADDED MORE WASH CLOTHS IN LUNCH TRL
Porta Potties	Qty. in use 2	✓		✓	
Personnel	Company:	Number of Workers		COMMENTS/OBSERVATIONS	
	TRINITY	3		WATERPROOFING WALL	
	EVERGREEN	3		WORKING ON EQUIP.	
	EGI	1		OVERSIGHT	
	P.R	2		PUMPING WATER	

Misc. notes:

INSPECTOR: DATE:

2/25/14

SIGNED:



(DAILY)

PHASE 2 CMP

Informal Daily Inspection Checklist No. P2CMP(D)2014-0226

Date: 02 ^(MM) 126 ^(DD), 2014

Inspector: Harry Slaughter

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	CHECKED (✓ CHECK ONE)		NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Yes	No	Yes	No	
Air Monitors	✓			✓	
Lunch Room	✓			✓	
Coverall Room	✓			✓	
First Aid	✓			✓	
Fire Extinguishers	✓			✓	
Signage	✓			✓	
Tackifier	✓			✓	
Security Fence	✓			✓	
Wind Fence	✓			✓	
E.Z. Fence	✓			✓	
Stockpiles	✓			✓	
Dust	✓			✓	
CRZs	✓			✓	
Haul Roads	✓			✓	
Building Materials	✓			✓	
Boot Washes	Qty. in use 5	✓		✓	
Hand Wash	Qty. in use 1	✓		✓	Serviced on 2/25/14
Porta Potties	Qty. in use 2	✓		✓	Serviced on 2/25/14
Personnel	Company:	Number of Workers	COMMENTS/OBSERVATIONS		
	P. Ruston	6	Excavation		
	E.I. Gov	1	Observation / Site		
	Evergreen Water No. tests	3	Excavation		
	T. Water	6	Installing Liver		
	Hydrojet	2			
		1	Site observation		

Misc. notes:

INSPECTOR: DATE: 2/26/2014

SIGNED: Harry S.



(DAILY)

PHASE 2 CMP

Informal Daily Inspection Checklist No. P2CMP(D)2014-0227

(MM)

(DD)

Date: 02 27, 2014

Inspector: Harry Slaughter

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	CHECKED (✓ CHECK ONE)		NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Yes	No	Yes	No	
Air Monitors	/	/	/	/	
Lunch Room	/	/	/	/	
Coverall Room	/	/	/	/	
First Aid	/	/	/	/	
Fire Extinguishers	/	/	/	/	
Signage	/	/	/	/	
Tackifier	/	/	/	/	Site Crew
Security Fence	/	/	/	/	
Wind Fence	/	/	/	/	
E.Z. Fence	/	/	/	/	
Stockpiles	/	/	/	/	
Dust	/	/	/	/	Site Crew
CRZs	/	/	/	/	
Haul Roads	/	/	/	/	
Building Materials	/	/	/	/	
Boot Washes	Qty. in use 5	/	/	/	
Hand Wash	Qty. in use 1	/	/	/	
Porta Potties	Qty. in use 2	/	/	/	
Personnel	Company:	Number of Workers		COMMENTS/OBSERVATIONS	
	P. Ruston	6		Excavation / Site prep -	
	Evergreen	2		Excavation / Site prep -	
	HydroMelt	1		Site / Project observation	
	B.I. Gou	1		Site / Project observation	
	TWP.	3		Water proofing Structure	

Misc. notes:

INSPECTOR: DATE: 2/27/2014

SIGNED: Harry J. Slaughter



(DAILY)

PHASE 2 CMP

Informal Daily Inspection Checklist No. P2CMP(D)2014-0226

(MM)

(DD)

Date: 02/28/2014Inspector: Harry Slaughter

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	CHECKED (✓ CHECK ONE)		NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Yes	No	Yes	No	
Air Monitors	✓			✓	
Lunch Room	✓			✓	
Coverall Room	✓			✓	
First Aid	✓		✓		Some items were out dated
Fire Extinguishers	✓			✓	
Signage	✓			✓	
Tackifier	✓			✓	Applied by P.R. Site Crew
Security Fence	✓			✓	
Wind Fence	✓			✓	
E.Z. Fence	✓			✓	
Stockpiles	✓			✓	
Dust	✓			✓	Dust Control - P.R. Site Crew
CRZs	✓			✓	
Haul Roads	✓			✓	
Building Materials	✓			✓	
Boot Washes	Qty. in use <u>5</u>	✓		✓	
Hand Wash	Qty. in use <u>1</u>	✓		✓	Serviced 2/28/14
Porta Potties	Qty. in use <u>2</u>	✓		✓	Serviced 2/28/14
Personnel	Company:	Number of Workers		COMMENTS/OBSERVATIONS	
	P. Ruston	6		Excavation / project prep.	
	Evergreen	3		Excavation / project prep	
	Harmac	1		Site observation -	
	E.I. Gov	1		Site observation -	
	I.W.P	2		Water Proofing Wall / structure	
	AZ Green	2		Surveying	

Misc. notes:

INSPECTOR: DATE: 2/28/2014SIGNED: Henry J. Slaughter



(DAILY)

PHASE 2 CMP

Informal Daily Inspection Checklist No. P2CMP(D)2014-0381

Date: 3 / 1 / 2014 Inspector: Tim RUSHER SR.

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	CHECKED (✓ CHECK ONE)		NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Yes	No	Yes	No	
Air Monitors	✓			✓	
Lunch Room		✓		✓	
Coverall Room	✓			✓	
First Aid	✓			✓	
Fire Extinguishers	✓			✓	
Signage	✓			✓	
Tackifier	✓			✓	
Security Fence	✓			✓	
Wind Fence	✓			✓	
E.Z. Fence	✓			✓	
Stockpiles	✓			✓	
Dust	✓			✓	
CRZs	✓			✓	
Haul Roads	✓			✓	
Building Materials	✓			✓	
Boot Washes	Qty. in use <u>3</u>	✓		✓	
Hand Wash	Qty. in use <u>1</u>	✓		✓	
Porta Potties	Qty. in use <u>2</u>	✓		✓	
Personnel	Company:	Number of Workers		COMMENTS/OBSERVATIONS	
	E.I. Gov	<u>1</u>			
	HYDROMETRICS	<u>1</u>			
	POINT RUSTON	<u>4</u>		+ JOE + Tim	
	EVERGREEN	<u>4</u>			

Misc. notes:

INSPECTOR: DATE:

3/1/14

SIGNED:



Exposure Evaluation (Personal Air Monitoring)
Representative Samples for Each Activity



P2CMP2014-0223





P2CMP2014-0223

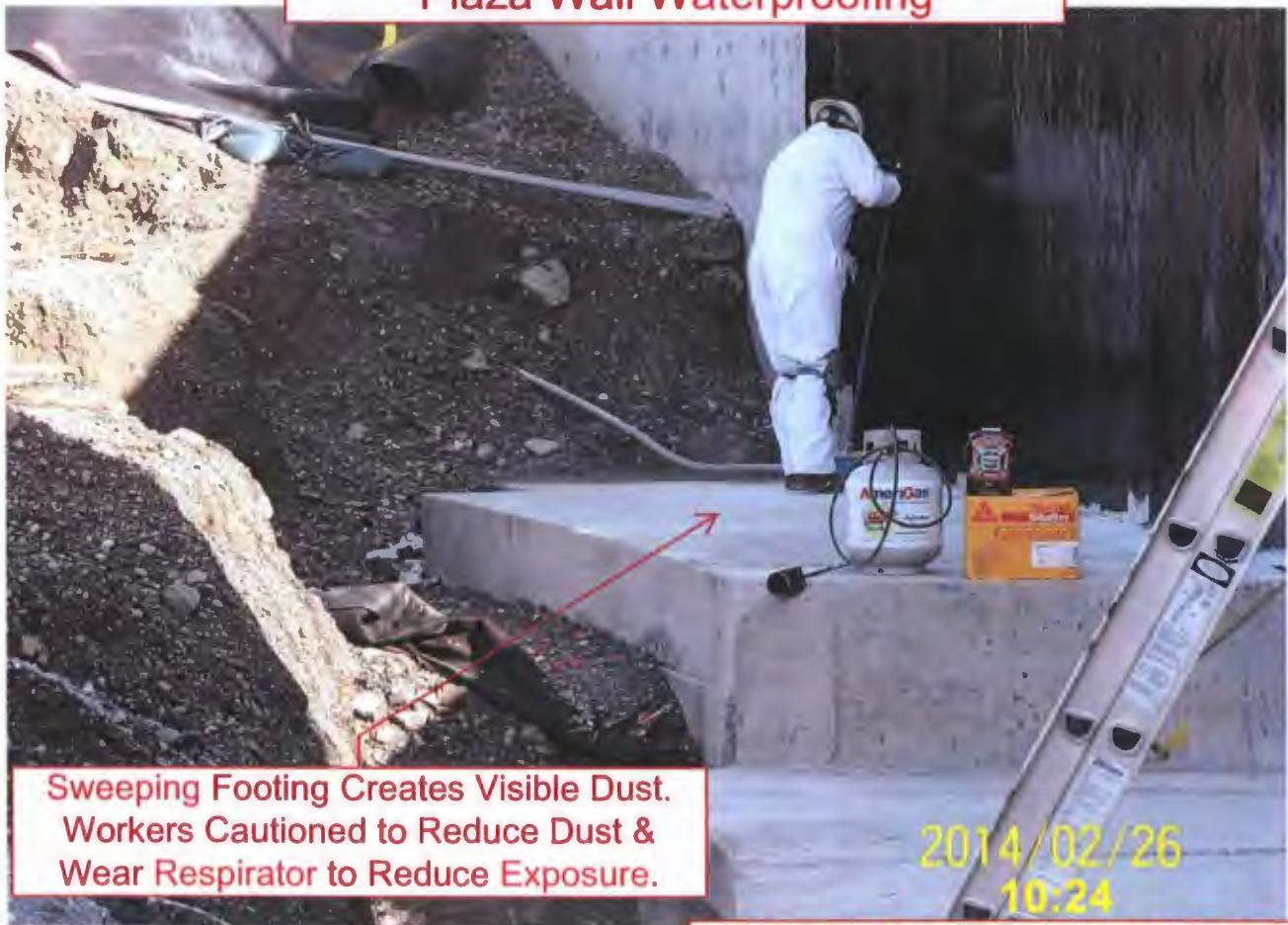
Additional Wind Fence Installed



P2CMP2014-0223



Plaza Wall Waterproofing



P2CMP2014-0223

**Sweeping Footing Creates Visible Dust.
Workers Cautioned Again to Reduce Dust.**



Plaza Wall Waterproofing



P2CMP2014-0223



Liner Installation at Plaza Wall



P2CMP2014-0223



2014/02/26



2014/02/26

Additional Excavation of Lot #1 In Progress



2014/02/26



2014/02/26

P2CMP2014-0223

Plaza Wall Waterproofing



P2CMP2014-0223



02/27/2014

Lot #1 Excavation



02/27/2014

P2CMP2014-0223

Stock Pile at Grand Plaza



2014/02/27

Applying Tacifier



2014/02/27

P2CMP2014-0223



2014/02/28



2014/02/28

Lot #1 Excavation Progress



2014/02/28

P2CMP2014-0223



02/28/2014

Surveying The Foundation Layout



02/28/2014

P2CMP2014-0223



Managing Excavated Soils At The Stock Pile



P2CMP2014-0223



2014/02/28

New Construction Office Sign Installed

POINT RUSTON

CONSTRUCTION OFFICE
(BUILDINGS: 1A, 11 & 9)

SITE SUPERINTENDENT	KEITH DANIEL	(360) 870-6920
BUILDING SUPERINTENDENT	RODNEY CAMPBELL	(253) 365-5248
SITE SAFETY OFFICER	TIM RUSHER	(360) 280-5052

P2CMP2014-0223



03/01/2014



03/01/2014

**Building Temporary Clean Access
Road Along West Side of Lot #1**



03/01/2014



03/01/2014

P2CMP2014-0223



03/01/2014

Lot #1 Excavation Progress
Digging formless footing pads



03/01/2014



03/01/2014



03/01/2014

P2CMP2014-0223



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P2CMP2014-0223



(STREETS)

MASTER INFRASTRUCTURE

Entered A.M.

Scanned

Weekly Site Inspection Report No. MICMP 2014-0223

(MM) (DD) (MM) (DD)

Week of: 02/23 - 03/01 , 2014 Inspector: Harry Slaughter

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION ✓ CHECK ONE		NEED REPAIR? ✓ CHECK ONE		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No
Streets: Surface Paint Splitter Islands Barricades	/	/	/	/	/
					SPRAYED Weed Killer - 2/27/14
Signage: Trespass Advisory Traffic Marketing Development Sign Public Notice	/	/	/	/	/
Street Lights: Ruston Way 51st Street Baltimore Court Commercial Villard Yacht Club Junction Boxes	/	/	/	/	/
Storm Drains: Curb/Gutter CBs Filterras	/	/	/	/	/
Sidewalks: Concrete Paint Crossings Warning Strips Bollards	/	/	/	/	/
Landscaping: Trees Plants Sprinkler Bark/Mulch	/	/	/	/	/
Roundabouts: Grand Yacht Club	/	/	/	/	/

STREETS - Weekly Site Inspection Report No.

MICMP 2014-0223

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION (✓ CHECK ONE)			NEED REPAIR? (✓ CHECK ONE)	COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No
Features: Wall/Rail (Other)	/			/	
Gates: 51 st St – (Pond) Roundabout – (Pond) Roundabout – (Lot 12) Roundabout – (Lot 10) Ruston Way – (Lot 10) BNSF Access OSW02 – (Ruston) 52 nd – (OCF Vault 2) Yacht Club – (Cascade) Yacht Club – (Vault) Yacht Club – (Lot 11) Yacht Club – (Lot 14) Yacht Club – (MMZ)	/			/	
Other: Jersey Barriers Baltimore Bridge Yacht Club – Steep Slope (Other)	/			/	

Misc. notes: Banners were installed on Yacht Club Rd.
 2/26/2014
 Sidewalk: Chips, CRACKS
 Curb/Gutter: Ruston Way - CRACKS -

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 2/27/2014 SIGNED: Henry J. Slawinski

REVIEWED: DATE: 3/2/14 SIGNED: [Signature]



MICMP2014-0223



TEMPORARY CAP

 Entered AM Scanned

Weekly Site Inspection Report No. TIC 2014- 0223

Week of: 02/03 - 03/01, 2014 Inspector: Harry Slaughter
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			CLEAN?		NEED REPAIR?		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	Yes	No	
Lot 1 Geomembrane (03/10/13) Sand Bag Cover (07/10/13) Anchor Edge Berm Drainage								Open Excavation Active Work Zones
Lot 3 Geomembrane (03/04/13) Sand Bag Cover (07/02/13) Anchor Edge Berm Drainage	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
Lot 4 Geomembrane (12/11/12) Sand Bag Cover (07/02/13) Anchor Edge Berm Drainage Patch (1:05/15/13)	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	Pooling
Lot 5 (02/11/13) / 6 (01/17/13) Geomembrane Sand Bag Cover (07/02/13) Anchor Edge Berm Drainage Patches (2:05/10/13;1:06/12/13)	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	Pooling
Lot 7 Geomembrane (01/03/13) Sand Bag Cover (07/10/13) Anchor Edge Berm Drainage								
Lot 8 Gravel Cap (08/21/12) Drainage	✓			✓			✓	
	✓			✓			✓	
Lot 9/11 Geomembrane (04/05/13) Sand Bag Cover (07/05/13) Anchor Edge Berm Drainage	✓			✓			✓	See Notes / Pics
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	Pooling
Lot 12 Geomembrane (04/23/13) Sand Bag Cover (07/10/13) Anchor Edge Berm Drainage								
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	
	✓			✓			✓	Pooling

TEMPORARY CAP - Weekly Site Inspection Report No. TIC 2014-0223
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

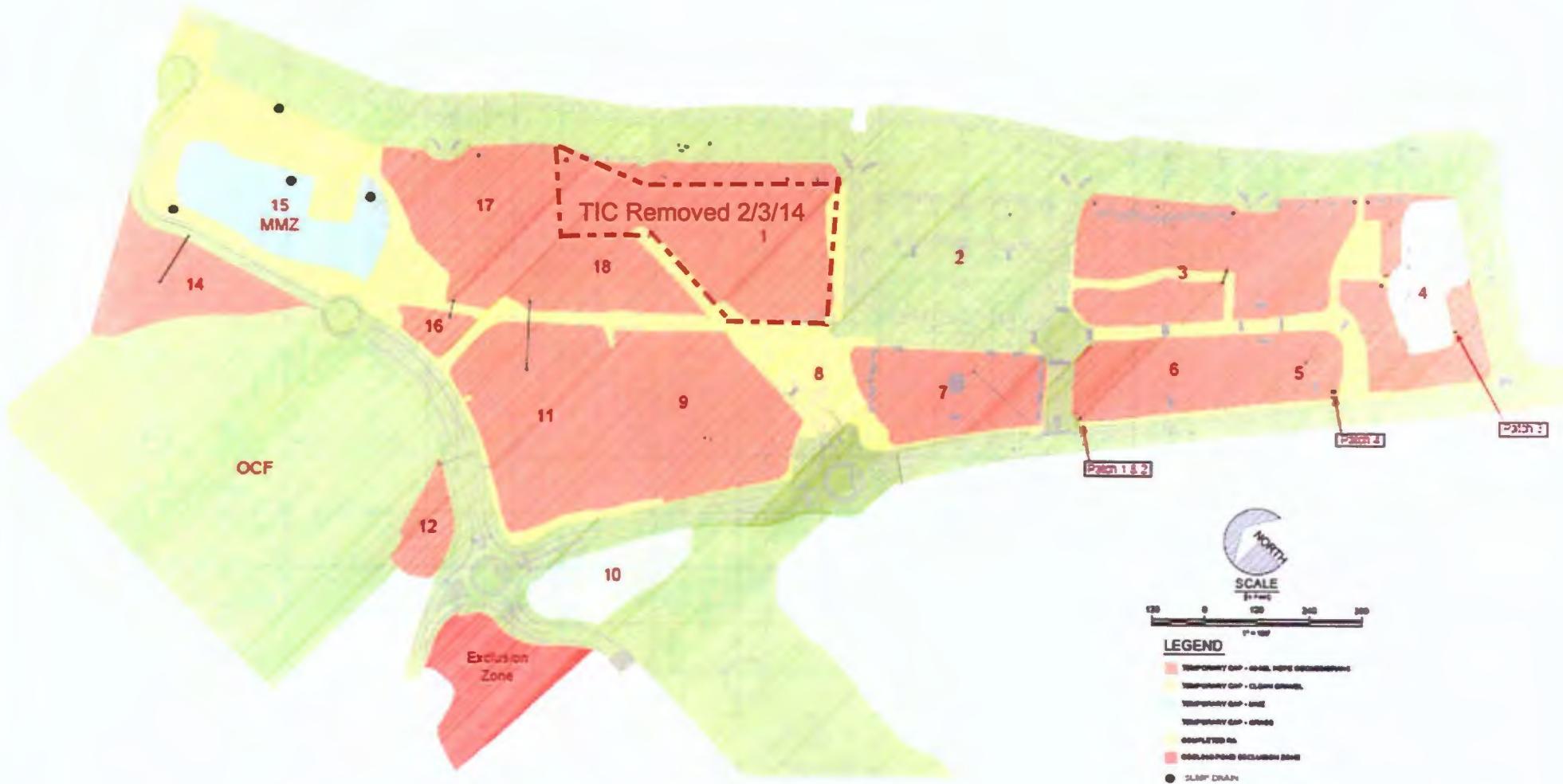
INSPECTION AREA	OVERALL CONDITION			CLEAN?		NEED REPAIR?		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	Yes	No	
Lot 14								
Geomembrane (10/17/13)	/				/		/	Sediment
Sand Bag Cover (10/18/13)	/			/		/	/	
Anchor Edge Berm (10/22/13)	/			/		/	/	
Drainage	/			/		/	/	
Block Wall	/			/		/	/	
Lot 15 (MMZ)	Good	Fair	Poor	Yes	No	Yes	No	
Gravel Cap (08/21/12)	/			/			/	
Drainage	/			/		/	/	
Lot 16	Good	Fair	Poor	Yes	No	Yes	No	Partial TIC / Temp Gravel Cap
Geomembrane (04/16/13)	/			/			/	
Sand Bag Cover (12/05/13)	/			/			/	
Anchor Edge Berm	/			/			/	
Drainage	/			/			/	
Lot 17/18	Good	Fair	Poor	Yes	No	Yes	No	Partially removed for last project
Geomembrane (04/13/13)	/			/			/	
Sand Bag Cover (07/09/13)	/			/			/	
Anchor Edge Berm	/			/			/	
Drainage	/			/			/	
TIC Repair Inventory	Good	Fair	Poor	Yes	No	Yes	No	
Gravel Stock Pile	/			/			/	
Sand Bags On Hand	/			/			/	
T.I.C. Repair Kit	/			/			/	

Misc. notes: Lots 5 & 9/11 Rips, tears, holes

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 2/27/2014 SIGNED: Henry J. Shugard

REVIEWED: DATE: 3/2/14 SIGNED: [Signature]



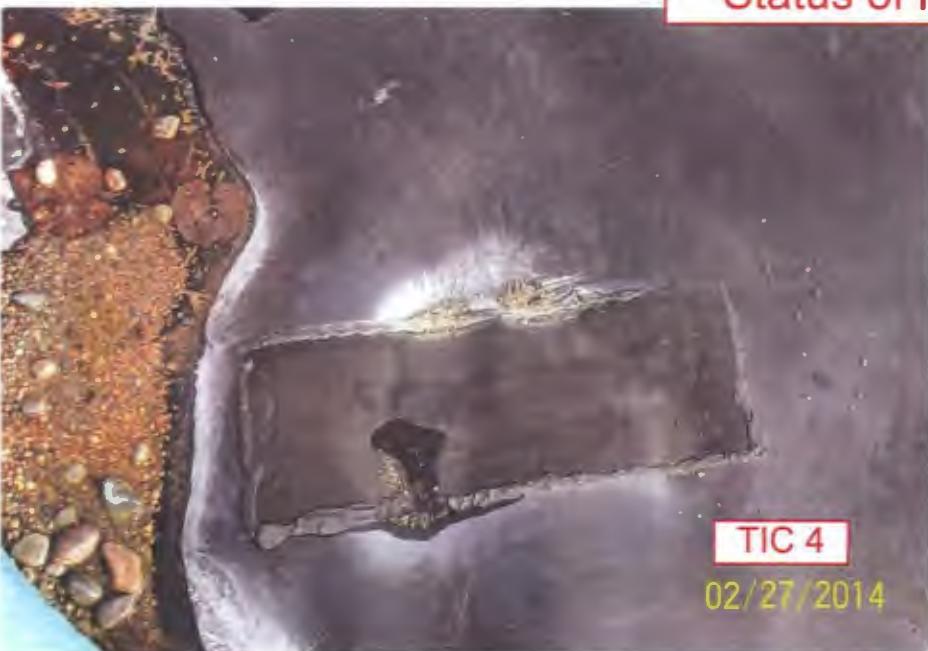


TIC 5
02/27/2014



TIC 6
02/27/2014

Status of liner patches



TIC 4
02/27/2014



TIC 6
02/27/2014

TIC2014-0223



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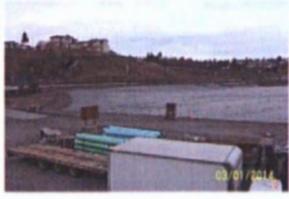


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TIC2014-0223



WATERWALK

Entered A.M.

Scanned

Weekly Site Inspection Report No. WW 2014-0223

Week of: 02/23 - 03/01, 2014 Inspector: Harry Shugster
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERALL CONDITION (✓ CHECK ONE)			NEED REPAIR? (✓ CHECK ONE)		COMMENTS/OBSERVATIONS
	Good	Fair	Poor	Yes	No	
Paths:					✓	BLACK at LP#8
Asphalt	/				/	
Gravel	/				/	
Trail to M.P.	/				/	
Signage:	Good	Fair	Poor	Yes	No	
Perimeter/Trespass	/			/		Replaced two signs
Perimeter/"No Access"	/			/		
Park Rules (Other)	/			/		
Street Lights:	Good	Fair	Poor	Yes	No	
Junction Boxes	/			/		Need to be Reset to Ground - level
Poles	/				/	
Bulbs	/				/	
Banners	/				/	
Storm Drains:	Good	Fair	Poor	Yes	No	
Area Drains	/				/	
Clean Outs	/				/	
Octopus:	Good	Fair	Poor	Yes	No	
Tile	/				/	Needs cleaning
Grout	/				/	
Paint	/				/	Touch up
Intersection #1:	Good	Fair	Poor	Yes	No	
Tile	/				/	Needs cleaning
Grout	/				/	
Paint	/				/	Touch-up
Intersection #2:	Good	Fair	Poor	Yes	No	
Tile	/				/	Needs cleaning
Grout	/				/	rust stains +
Paint	/				/	Touch-up
Intersection #3:	Good	Fair	Poor	Yes	No	
Tile	/				/	Needs cleaning
Grout	/				/	
Paint	/				/	(CRACKED) / Needs Touch up
Intersection #4:	Good	Fair	Poor	Yes	No	
Tile	/				/	
Grout	/				/	
Sprinkler:	Good	Fair	Poor	Yes	No	
Heads	/				/	
Valve Boxes	/				/	

WATERWALK - Weekly Site Inspection Report No. WW 2014-0223
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION (✓ CHECK ONE)			NEED REPAIR? (✓ CHECK ONE)	COMMENTS/OBSERVATIONS
	Good	Fair	Poor		
Landscaping:	Good	Fair	Poor	Yes	No
Trees	✓			✓	
Plants	✓			✓	
Grass	✓			✓	
Bark/Mulch	✓			✓	
Hardware:	Good	Fair	Poor	Yes	No
Cleat Benches		✓		✓	
Metal Benches	✓			✓	
Tables	✓			✓	
Trash Cans	✓			✓	
Gates:	Good	Fair	Poor	Yes	No
Ferry – Struts	✓			✓	
TIC – Lots 3/4	✓			✓	
Intersection #1	✓			✓	
Intersection #2	✓			✓	
Middle Outfall	✓			✓	
Intersection #4	✓			✓	
North Outfall	✓			✓	
Peninsula - North	✓			✓	
Grand Plaza:	Good	Fair	Poor	Yes	No
Lights	✓			✓	
Concrete	✓			✓	
Rails	✓			✓	
Big Toy:	Good	Fair	Poor	Yes	No
Block Wall		✓	✓	✓	
Sign	✓			✓	
Boardwalk/Benches	✓			✓	
Swings	✓			✓	
Chips		✓	✓	✓	
Other:	Good	Fair	Poor	Yes	No
Bollards	✓			✓	
Coyotes		✓	✓	✓	
Tide Pool	✓			✓	
Misc. notes (use continuation sheet if necessary):					

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE:

2/26/2014

SIGNED:

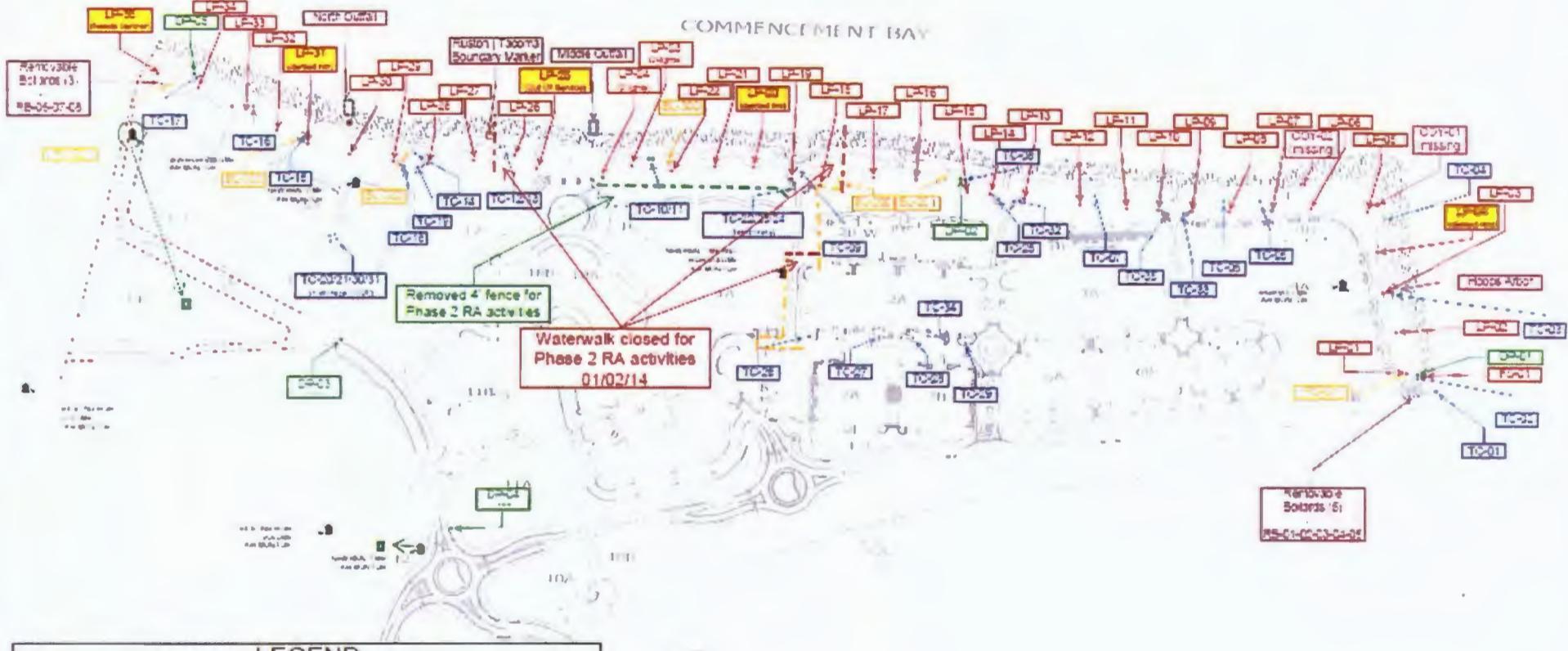
Danny J. Daugherty

REVIEWED: DATE:

3/2/14

SIGNED:

[Signature]



LEGEND

- Dogi-Pots (5) Fire Access Sign (1)
Light Pole (35) Park Rules Sign (2)
Boundary Line Marker Coyote (6 of 6 stolen)
Trash Can (35) Removable Bollards (8)
TC #

A small circular scale mark with the letter 'G' inside.

Updated: 01/25/14

Waterwalk Features

POINT RUSTON, LLC.
DEVELOPMENT AND OCCUPANCY PLAN



WW2014-0223



North Outfall gate appeared to have been kicked several times until the hinge came apart.



WW2014-0223



WW2014-0223



WW2014-0223



PENINSULA

Entered A.M. Scanned

Weekly Site Inspection Report No. PEN2014-0223

Week of: 2/23 - 3/1, 2014 Inspector: Pat Wilber

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION (✓ CHECK ONE)			NEED REPAIR? (✓ CHECK ONE)	COMMENTS/OBSERVATIONS
Fence:	Good	Fair	Poor	Yes	No
Yacht Club Storage	✓			✓	
Waterwalk	✓			✓	
EPA Signage	✓			✓	
Source Area:	Good	Fair	Poor	Yes	No
Drainage	✓			✓	
BMPs	✓			✓	
Fence	✓			✓	
BMPs:	Good	Fair	Poor	Yes	No
Plastic Cover	✓			✓	Small holes - photo taken
Sand Bags	✓			✓	
Wattles	✓			✓	Deep damage one spot - photo taken
Silt Fence	✓			✓	
Peninsula Liner:	Good	Fair	Poor	Yes	No
Geomembrane	✓			✓	
Soil Cover	✓			✓	
Marker Fabric	✓			✓	Photos taken of previous reported areas
Soil Cap	✓			✓	" "
Drainage	✓			✓	
Other Features:	Good	Fair	Poor	Yes	No
Shoreline Armoring	✓			✓	
Habitat Basin	✓			✓	
City Outfall	✓			✓	
Hydro Seed	✓			✓	

Misc. notes:

Soil soft - slopes very soft

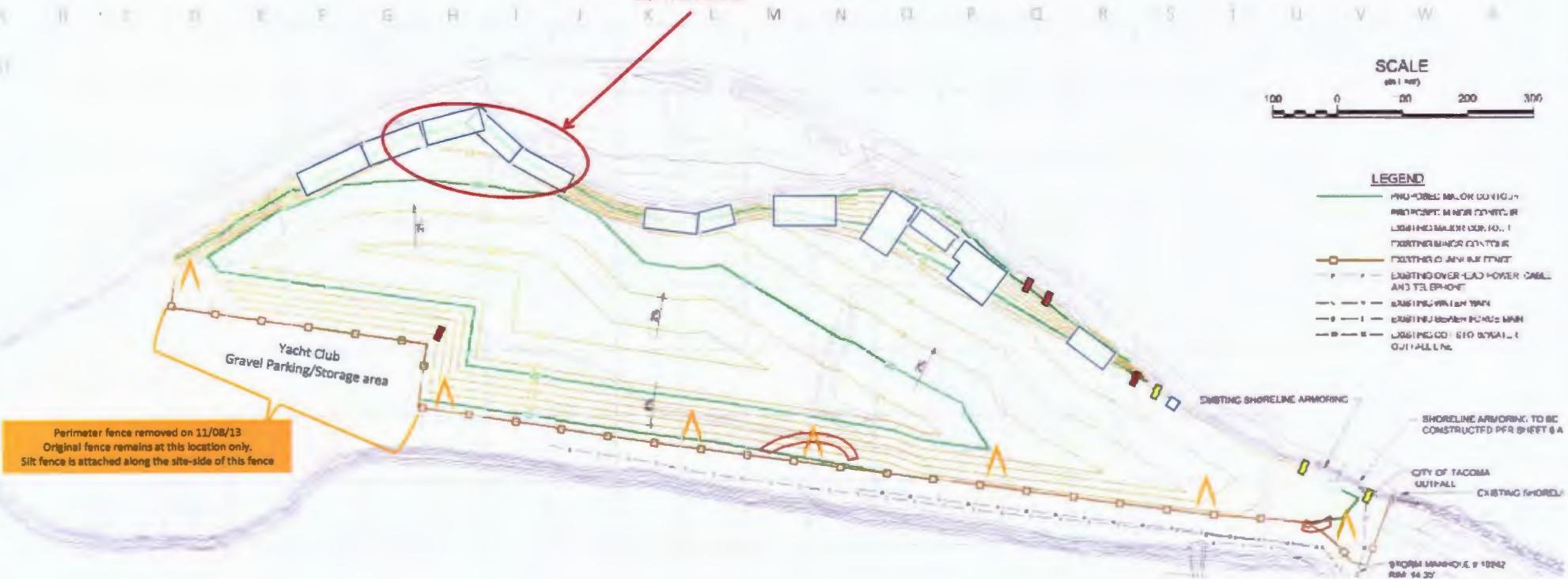
I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 2/26/14 SIGNED: Pat Wilber

H&S OFFICER: DATE: 3/2/14 SIGNED: [Signature]

PEN2014-0223

Plastic in this area is bulging & pulled through sandbags. Remove or repair as needed.





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PEN2014-0223



Completed Service By Location

Phase 1 CMP

Asset: SPP-05 (AST0000166)

Date	Service	Service Personnel	Personnel Group	Comments
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	Surface Seal Intact
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	

Asset: WVL-01 (AST0000174)

Date	Service	Service Personnel	Personnel Group	Comments
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	reseal-city of tacoma opend
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	Outer seal broken
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	Silicone Seal and gasket intact
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	

Asset: WVL-02 (AST0000175)

Date	Service	Service Personnel	Personnel Group	Comments
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	Silicone Seal Intact
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	Outer Seal Intact
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	Silicone Seal intact
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	

Asset: WVL-03 (AST0000176)

Date	Service	Service Personnel	Personnel Group	Comments
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	Silicone Seal Intact
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	Outer Seal Intact
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	Silicone Seal intact

Asset: WVL-03 (AST0000176)

Date	Service	Service Personnel	Personnel Group	Comments
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	

Asset: WVL-04 (AST0000177)

Date	Service	Service Personnel	Personnel Group	Comments
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	Silicone Seal Intact
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	Outer Seal Intact
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	Silicone Seal intact
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	

Asset: WVL-05 (AST0000178)

Date	Service	Service Personnel	Personnel Group	Comments
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	Silicone Seal Intact
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	Outer Seal Intact
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	Silicone Seal intact
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	

Asset: WVL-06 (AST0000179)

Date	Service	Service Personnel	Personnel Group	Comments
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	Silicone Seal Intact
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	Outer Seal Intact
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	Silicone Seal intact
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	

Asset: WVL-07 (AST0000180)

Date	Service	Service Personnel	Personnel Group	Comments
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	Silicone Seal Intact
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	Outer Seal Intact
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	Silicone Seal Intact

Asset: WVL-07 (AST0000180)

Date	Service	Service Personnel	Personnel Group	Comments
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	

Asset: WVL-08 (AST0000181)

Date	Service	Service Personnel	Personnel Group	Comments
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	reseal-city of Tacoma opened
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	Outer seal needs reseal
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	Silicone Seal intact
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	

Asset: WVL-09 (AST0000182)

Date	Service	Service Personnel	Personnel Group	Comments
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	Silicone Seal Intact
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	Outer seal needs reseal
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	Silicone Seal intact
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	

Asset: WVL-10 (AST0000183)

Date	Service	Service Personnel	Personnel Group	Comments
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	reseal-city of Tacoma opened
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	Outer seal needs reseal
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	Silicone Seal intact
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	

Asset: WVL-11 (AST0000184)

Date	Service	Service Personnel	Personnel Group	Comments
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	Silicone Seal Intact
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	Outer Seal Intact
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	Silicone Seal Intact

Asset: WVL-11 (AST0000184)

Date	Service	Service Personnel	Personnel Group	Comments
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	

Asset: WVL-12 (AST0000185)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	P1CMP2013-1229	Slaughter, Harry (PSN0003764)	Quality	Outer Seal Intact
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	Silicone Seal Intact
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	Outer Seal Intact
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	Silicone Seal intact
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	

Asset: WVL-13 (AST0000186)

Date	Service	Service Personnel	Personnel Group	Comments
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	reseal-city of Tacoma opened
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	Outer seal needs reseal
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	reseal
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	

Asset: WVL-14 (AST0000187)

Date	Service	Service Personnel	Personnel Group	Comments
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	reseal-city of Tacoma opened
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	Outer seal needs reseal
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	reseal
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	

Asset: WVL-15 (AST0000188)

Date	Service	Service Personnel	Personnel Group	Comments
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	Silicone Seal Intact
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	Outer Seal Intact

Asset: WVL-15 (AST0000188)

Date	Service	Service Personnel	Personnel Group	Comments
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	Silicone Seal intact
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	

Asset: WVL-16 (AST0000189)

Date	Service	Service Personnel	Personnel Group	Comments
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	located in unfinished area between 2a and 2BE.
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	Located outside of cap parameters at this time. No seal required.
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	Located i unfinished area between 2A and 2BE.
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	Located i unfinished area between 2A and 2BE.

Asset: SPP-01 (AST0000190)

Date	Service	Service Personnel	Personnel Group	Comments
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	Not visible penetration is below landscaping of sand and rock.
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	

Asset: SPP-02 (AST0000191)

Date	Service	Service Personnel	Personnel Group	Comments
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	Not visible penetration is below landscaping of sand and rock.
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	

Asset: SPP-03 (AST0000192)

Date	Service	Service Personnel	Personnel Group	Comments
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	Not visible penetration is below landscaping of sand and rock.

Asset: SPP-03 (AST0000192)

Date	Service	Service Personnel	Personnel Group	Comments
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	

Asset: SPP-04 (AST0000193)

Date	Service	Service Personnel	Personnel Group	Comments
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	Not visible penetration is below landscaping of sand and rock.
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	

Asset: SLB-01 (NW) (AST0000194)

Date	Service	Service Personnel	Personnel Group	Comments
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	

Asset: SLB-02 (SW) (AST0000195)

Date	Service	Service Personnel	Personnel Group	Comments
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	

Asset: IVL-01 (AST0000196)

Date	Service	Service Personnel	Personnel Group	Comments
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	Silicone Seal Intact
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	Outer Seal Intact
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	Silicone Seal intact

Asset: IVL-01 (AST0000196)

Date	Service	Service Personnel	Personnel Group	Comments
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	

Asset: IVL-02 (AST0000197)

Date	Service	Service Personnel	Personnel Group	Comments
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	Silicone Seal Intact
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	Outer Seal Intact
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	Silicone Seal intact
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	

Asset: IVL-03 (AST0000198)

Date	Service	Service Personnel	Personnel Group	Comments
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	Silicone Seal Intact
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	Outer Seal Intact
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	Silicone Seal intact
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	

Asset: PVL-01 (AST0000199)

Date	Service	Service Personnel	Personnel Group	Comments
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	Silicone Seal Intact
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	Outer Silicone Seal Intact
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	Silicone Seal intact
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	

Asset: PVL-02 (AST0000200)

Date	Service	Service Personnel	Personnel Group	Comments
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	Silicone Seal Intact
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	Outer Seal Intact
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	Silicone Seal intact

Asset: PVL-02 (AST0000200)

Date	Service	Service Personnel	Personnel Group	Comments
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	

Asset: PVL-03 (AST0000201)

Date	Service	Service Personnel	Personnel Group	Comments
2/19/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	Silicone Seal Intact
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	Outer Seal Intact
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	Silicone Seal intact
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	

Asset: LPG-01 (AST0000202)

Date	Service	Service Personnel	Personnel Group	Comments
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	

Asset: OWMV-01 (AST0000203)

Date	Service	Service Personnel	Personnel Group	Comments
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	Silicone Seal Intact
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	Outer Silicone needs to be resael
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	reseal
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	reseal
2/28/2014	P1CMP2014-0223	Slaughter, Harry (PSN0003764)	Quality	Resealed

Asset: WMV-02 (AST0000204)

Date	Service	Service Personnel	Personnel Group	Comments
2/6/2014	P1CMP2014-0202	Wilber, Pat (PSN0001213)	Quality	reaseal-city of tacoma opened
2/13/2014	P1CMP2014-0209	Wilber, Pat (PSN0001213)	Quality	Outer Silicone needs to be resealed.
2/20/2014	P1CMP2014-0216	Wilber, Pat (PSN0001213)	Quality	reseal
2/27/2014	P1CMP2014-0223	Wilber, Pat (PSN0001213)	Quality	reseal

Asset: WMV-02 (AST0000204)

Date Service

2/28/2014 P1CMP2014-0223

Service Personnel

Slaughter, Harry (PSN0003764)

Personnel Group

Quality

Comments

Resealed



Completed Service By Location

Lot 01

Asset: Geomembrane (AST0000205)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	Removed for construction
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	Open excavation. Active work zones

Asset: Sand Bag Cover (AST0000206)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	Removed for construction
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	Open excavation. Active work zones.

Asset: Anchor Edge Berm (AST0000207)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	Open excavation. Active work zones.

Asset: Drainage (1 of 3) (AST0000208)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	Swales cut for draining
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	Open Excavation. Active Work Zones.

Asset: Drainage (2 of 3) (AST0000209)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	Swales cut for draining
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	Open Excavations. Active Work Zones.

Asset: Drainage (2 of 3) (AST0000209)

Date	Service	Service Personnel	Personnel Group	Comments
Asset: Drainage (3 of 3) (AST0000210)				
Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	Swales cut for draining
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	Open Excavation.
				Active Work Zones.

Lot 03

Asset: Geomembrane (AST0000211)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Sand Bag Cover (AST0000212)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	35% needs to be replaced
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Anchor Edge Berm (AST0000213)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Drainage (3 of 3) (AST0000214)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Drainage (2 of 3) (AST0000215)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Drainage (1 of 3) (AST0000216)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Lot 04

Asset: Geomembrane (AST0000217)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Sand Bag Cover (AST0000218)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	40% needs to be replace
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Anchor Edge Berm (AST0000219)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Drainage (3 of 4) (AST0000220)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	Pooling

Asset: Drainage (2 of 4) (AST0000221)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	Pooling

Asset: Drainage (1 of 4) (AST0000222)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	Pooling

Asset: Drainage (4 of 4) (AST0000223)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	Pooling

Asset: Liner Penetration (AST0000230)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	pic
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Lot 05

Asset: Geomembrane (AST0000225)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Sand Bag Cover (AST0000226)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Anchor Edge Berm (AST0000227)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Drainage (1 of 2) (AST0000228)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	pooling

Asset: Drainage (2 of 2) (AST0000229)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	pooling

Lot 06

Asset: Geomembrane (AST0000231)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Sand Bag Cover (AST0000232)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Anchor Edge Berm (AST0000233)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Drainage (Swale) (AST0000234)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/28/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	pooling

Lot 07

Asset: Geomembrane (AST0000235)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	pic/compound/material
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Sand Bag Cover (AST0000236)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/28/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Anchor Edge Berm (AST0000237)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Drainage (AST0000238)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	pic
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Lot 09

Asset: Geomembrane (AST0000240)

Date	Service	Service Personnel	Personnel Group	Comments
2/21/2014	TIC2013-1229	Slaughter, Harry (PSN0003764)	Quality	
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	rip, tears, holes

Asset: Sand Bag Cover (AST0000241)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Drainage (AST0000242)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	pooling

Asset: Anchor Edge Berm (AST0000243)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Lot 11

Asset: Anchor Edge Berm (AST0000244)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Geomembrane (AST0000245)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	rip, tears, holes

Asset: Sand Bag Cover (AST0000246)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Drainage (AST0000247)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	pooling

Lot 12

Asset: Geomembrane (AST0000248)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Sand Bag Cover (AST0000249)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Anchor Edge Berm (AST0000250)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Drainage (AST0000251)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	pooling

Lot 14

Asset: Geomembrane (AST0000252)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	pic/erosion
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Sand Bag Cover (AST0000253)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Anchor Edge Berm (AST0000254)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Drainage (AST0000255)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Retaining Wall (AST0000256)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Lot 15

Asset: Sand Rag - Emergency Inventory (AST0000271)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Anchor Edge - Emergency Inventory (AST0000272)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Repair Kit - Emergency Inventory (AST0000273)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/28/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Lot 16

Asset: Geomembrane (AST0000257)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	sediment

Asset: Sand Bag Cover (AST0000258)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Drainage (AST0000259)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Anchor Edge Berm (AST0000260)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Lot 17

Asset: Geomembrane (AST0000261)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	Partial TIC removed for site prep/draining
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Sand Bag Cover (AST0000262)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Drainage (1 of 2) (AST0000263)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Drainage (2 of 2) (AST0000264)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Anchor Edge Berm (AST0000265)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Lot 18

Asset: Geomembrane (AST0000266)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Sand Bag Cover (AST0000267)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Drainage (AST0000268)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/28/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

Asset: Anchor Edge Berm (AST0000269)

Date	Service	Service Personnel	Personnel Group	Comments
2/18/2014	TIC2014-0216	Slaughter, Harry (PSN0003764)	Quality	
2/27/2014	TIC2014-0223	Slaughter, Harry (PSN0003764)	Quality	

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Operable Unit 02
Asarco Tacoma Smelter Site

OCF

LEACHATE

SAMPLING

DATA

Reference	Date	Description
Analysis	11/26/13	Spectra Labs Project # 2013110531 (shipped 02/27/14)



SPECTRA Laboratories

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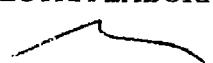
11/26/2013

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Tacoma Smelter OCF-Leachate
Client ID: TSM111325
Sample Matrix: Leachate
Date Sampled: 11/25/2013
Date Received: 11/25/2013
Spectra Project: 2013110531
Spectra Number: 1

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Arsenic	5.47	mg/L	EPA 200.7

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager
a6/scj

Page 1 of 1

CHAIN OF CUSTODY RECORD

2016110531

POINT RUSTON



5219 N. Shirley Street, Suite 100, Tacoma, WA 98407

Monthly Report 213, February 2014
Operable Unit 02
Asarco Tacoma Smelter Site

OUTFALL

MONITORING

DATA

Reference	Date	Description
Table 1	February 2014	Summary of February 2014 Outfall Data for As, Cu, and Zn Compared to SOW Limit
Spectra	03/05/2014	Spectra Labs Project # 2014030058 Outfall Analysis Report for February Samples

Table 1. Summary of February 2014 Outfall Data for As, Cu, and Zn Compared to SOW Limit

Location	As Conc. ppm	% of SOW Limit*	Cu Conc. ppm	% of SOW Limit*	Zn Conc. ppm	% of SOW Limit*
South Outfall	0.000	0.00%	0.000	0.00%	0.000	0.00%
OSW2	0.028	5.55%	0.008	1.55%	0.001	0.18%
North Outfall	0.047	9.35%	0.035	6.95%	0.013	2.59%

* 0.5 ppm is the limit of As, Cu, and Zn allowed as documented in the SOW.

** NOTE: Sampling has been suspended at the South Outfall due to lack of sample media.
The South Outfall was permanently abandoned on February 15, 2013



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MAR 11 2014

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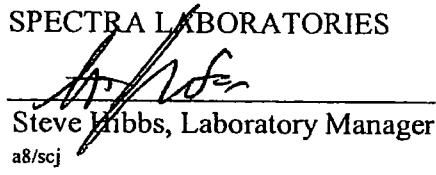
03/05/2014

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Tacoma Smelter Outfall
Date Received: 03/03/2014
Spectra Project: 2014030058

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
TSM 0214410	1	Arsenic	0.067	mg/L	EPA 200.8	Water	02/10/2014
TSM 0214410	1	Copper	0.060	mg/L	EPA 200.8	Water	02/10/2014
TSM 0214410	1	Zinc	0.025	mg/L	EPA 200.8	Water	02/10/2014
TSM 0214210	2	Arsenic	0.021	mg/L	EPA 200.8	Water	02/10/2014
TSM 0214210	2	Copper	0.0043	mg/L	EPA 200.8	Water	02/10/2014
TSM 0214210	2	Zinc	0.0006	mg/L	EPA 200.8	Water	02/10/2014
TSM 0214417	3	Arsenic	0.074	mg/L	EPA 200.8	Water	02/17/2014
TSM 0214417	3	Copper	0.050	mg/L	EPA 200.8	Water	02/17/2014
TSM 0214417	3	Zinc	0.018	mg/L	EPA 200.8	Water	02/17/2014
TSM 0214217	4	Arsenic	0.026	mg/L	EPA 200.8	Water	02/24/2014
TSM 0214217	4	Copper	0.0076	mg/L	EPA 200.8	Water	02/24/2014
TSM 0214217	4	Zinc	0.0009	mg/L	EPA 200.8	Water	02/24/2014
TSM 0214424	5	Arsenic	0.026	mg/L	EPA 200.8	Water	02/24/2014
TSM 0214424	5	Copper	0.017	mg/L	EPA 200.8	Water	02/24/2014
TSM 0214424	5	Zinc	0.0051	mg/L	EPA 200.8	Water	02/24/2014
TSM 0214224	6	Arsenic	0.034	mg/L	EPA 200.8	Water	02/24/2014
TSM 0214224	6	Copper	0.011	mg/L	EPA 200.8	Water	02/24/2014
TSM 0214224	6	Zinc	0.0013	mg/L	EPA 200.8	Water	02/24/2014

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager
a8/scj



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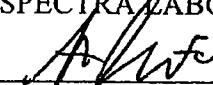
03/05/2014

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Tacoma Sinelter Outfall
Date Received: 03/03/2014
Spectra Project: 2014030058

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
TSM 0314403	7	Arsenic	0.020	mg/L	EPA 200.8	Water	03/03/2014
TSM 0314403	7	Copper	0.012	mg/L	EPA 200.8	Water	03/03/2014
TSM 0314403	7	Zinc	0.0037	mg/L	EPA 200.8	Water	03/03/2014
TSM 0314203	8	Arsenic	0.030	mg/L	EPA 200.8	Water	03/03/2014
TSM 0314203	8	Copper	0.0081	mg/L	EPA 200.8	Water	03/03/2014
TSM 0314203	8	Zinc	0.0008	mg/L	EPA 200.8	Water	03/03/2014

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager
a8/scj

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March 5, 2014

Point Ruston
5219 N. Shirley St.
Suite 100
Tacoma, WA 98407

Units: ug/L
Spectra Project: 2014030058
Applies to Spectra #'s 1-8

QUALITY CONTROL RESULTS ICP-MS Metals - EPA Method 200.8 - Water

Laboratory Reagent Blank

Date Digested:	3/5/2014	Date Analyzed:	3/5/2014
----------------	----------	----------------	----------

Element	CAS #	Result
Arsenic	7440-38-2	< 0.5
Copper	7440-50-8	< 0.5
Zinc	7440-66-6	< 0.5

Laboratory Fortified Blank (LFB)

Date Digested:	3/5/2014	Date Analyzed:	3/5/2014
----------------	----------	----------------	----------

Element	Spike Added	LCS Conc.	LCS %Rec
Arsenic	100.0	94.20	94.2
Copper	100.0	101.70	101.7
Zinc	100.0	92.23	92.2

LCS Recovery limits 85-115%

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

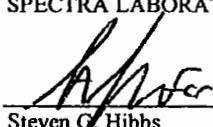
Date Digested:	3/5/2014	Date Analyzed:	3/5/2014
Sample Spiked:	2014030035-1		

Element	Sample Conc.	Spike Conc.	MS Conc.	MS %Rec	MSD Conc	MSD %Rec	RPD
Arsenic	1.02	100.0	103.60	102.6	102.60	101.6	1.0
Copper	5.97	100.0	114.30	108.6	113.40	107.4	1.1
Zinc	37.83	100.0	139.10	101.3	139.00	101.2	0.1

Recovery Limits 70-130%

RPD Limit 20

SPECTRA LABORATORIES


Steven C. Hibbs
Laboratory Manager

CHAIN OF CUSTODY RECORD

2014030058

POINT RUSTON

5219 N. Shirley Street, Suite 100, Tacoma, WA 98407
Phone: 253-752-2185 **Fax: 253-752-7083**



Monthly Report 213, February 2014
Operable Unit 02
Asarco Tacoma Smelter Site

PERIMETER

AIR

MONITORING

DATA

(HIGH VOLUME)

Reference	Date	Description
Spectra	02/03 – 02/09	Spectra Laboratories Project # 2014020183 Analysis Reports for As-Pb: Lot 8 / Lot 4B / Lot 14 (On Site)
Spectra	02/03 – 02/09	Spectra Laboratories Project # 2014020182 Analysis Report for As-Pb: OCF NW / OCF S (Off Site)
Spectra	02/10 – 02/16	Spectra Laboratories Project # 2014020432 Analysis Reports for As-Pb: Lot 8 / Lot 4B / Lot 14 (On Site)
Spectra	02/10 – 02/16	Spectra Laboratories Project # 2014020392 Analysis Report for As-Pb: OCF NW / OCF S (Off Site)
Spectra	02/21 – 02/23	Spectra Laboratories Project # 2014020538 RUSH Analysis Reports for As-Pb: Lot 8 (On Site)
Spectra	02/17 – 02/23	Spectra Laboratories Project # 2014020551 Analysis Reports for As-Pb: Lot 8 / Lot 4B / Lot 14 (On Site)
Spectra	02/17 – 02/23	Spectra Laboratories Project # 2014020548 Analysis Report for As-Pb: OCF NW / OCF S (Off Site)
Spectra	02/26	Spectra Laboratories Project # 2014020658 RUSH Analysis Reports for As-Pb: Lot 8 (On Site)
Spectra	02/27	Spectra Laboratories Project # 2014020681 RUSH Analysis Report for As-Pb: Lot 8 (On Site)
Spectra	02/28	Spectra Laboratories Project # 2014030033 RUSH Analysis Report for As-Pb: Lot 8 (On Site)
LOG	02/03 – 03/02	Hi-Volume Sampler Log (some results pending)
Calibration	02/17	Hi-Volume Sampler Calibration Worksheet (Lot 8)
Calibration	02/25	Hi-Volume Sampler Calibration Worksheet (Lot 4B)

REAL TIME



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FEB 27 2014

BY:

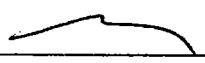
02/20/2014

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (Hi-Vol)
Date Received: 02/10/2014
Spectra Project: 2014020183

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8965435	1	Arsenic	0.0011	µg/m3	SW846 6020A	Filter	02/03/2014
8965435	1	Lead	0.0035	µg/m3	SW846 6020A	Filter	02/03/2014
8965432	2	Arsenic	0.0016	µg/m3	SW846 6020A	Filter	02/03/2014
8965432	2	Lead	0.0037	µg/m3	SW846 6020A	Filter	02/03/2014
8965431	3	Arsenic	0.0011	µg/m3	SW846 6020A	Filter	02/03/2014
8965431	3	Lead	0.0032	µg/m3	SW846 6020A	Filter	02/03/2014
8965430	4	Arsenic	0.00074	µg/m3	SW846 6020A	Filter	02/05/2014
8965430	4	Lead	0.0032	µg/m3	SW846 6020A	Filter	02/05/2014
8965427	5	Arsenic	0.0011	µg/m3	SW846 6020A	Filter	02/05/2014
8965427	5	Lead	0.0048	µg/m3	SW846 6020A	Filter	02/05/2014
8965426	6	Arsenic	0.0012	µg/m3	SW846 6020A	Filter	02/05/2014
8965426	6	Lead	0.0052	µg/m3	SW846 6020A	Filter	02/05/2014
8965424	7	Arsenic	0.0038	µg/m3	SW846 6020A	Filter	02/07/2014
8965424	7	Lead	0.0075	µg/m3	SW846 6020A	Filter	02/07/2014
8965421	8	Arsenic	0.0052	µg/m3	SW846 6020A	Filter	02/07/2014
8965421	8	Lead	0.0080	µg/m3	SW846 6020A	Filter	02/07/2014

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager
a8/scj



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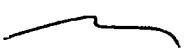
02/20/2014

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (Hi-Vol)
Date Received: 02/10/2014
Spectra Project: 2014020183

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8965420	9	Arsenic	0.0042	µg/m3	SW846 6020A	Filter	02/07/2014
8965420	9	Lead	0.010	µg/m3	SW846 6020A	Filter	02/07/2014

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager
a8/scj

CHAIN OF CUSTODY RECORD

2012020183

POINT RUSTON

5219 N. Shirley Street, Suite 100, Tacoma, WA 98407
Phone: 253-752-2185

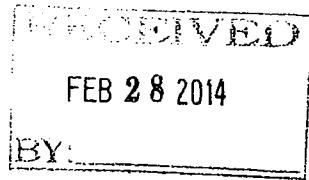
Fax: 253-752-7083



PROJ. NO		PROJECT NAME				NO. OF CONTAINERS	REMARKS	
AIR MONITORING		Pt Ruston (HI-VOL)						
SAMPLERS: (Signature) <i>Dale W.</i>								
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER			
2/3/14	Lot 4B		x		8965435	1	X	
2/3/14	Lot 8		x		8965432	1	X	
2/3/14	Lot 14		x		8965431	1	X	
2/5/14	Lot 4B		x		8965430	1	X	
2/5/14	Lot 8		x		8965427	1	X	
2/5/14	Lot 14		x		8965426	1	X	
2/7/14	Lot 4B		x		8965424	1	X	
2/7/14	Lot 8		x		8965421	1	X	
2/7/14	Lot 14		x		8965420	1	X	
2/10/14	HI-VOLUME SAMPLER LOG							
Relinquished (Signature) <i>Dale W.</i>			Date/Time 2/10/14 15:22		Received by: (Signature) <i>M. O.</i>		Lab Spectra	Shipped via: FedEx, UPS or Other Air Bill # <i>16114</i>
Relinquished (Signature)			Date/Time		Received by: (Signature)		Remarks	
Relinquished (Signature)			Date/Time		Received for Laboratory by: (Signature)		Date/Time	Enclosed: <input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter
Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined _____ <i>Signature</i>								

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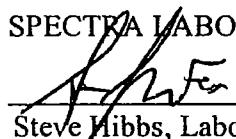
02/21/2014

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring
Date Received: 02/10/2014
Spectra Project: 2014020182

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8965434	1	Arsenic	< 0.004	µg/m3	SW846 6010B	Filter	02/03/2014
8965434	1	Lead	< 0.004	µg/m3	SW846 6010B	Filter	02/03/2014
8965433	2	Arsenic	< 0.004	µg/m3	SW846 6010B	Filter	02/03/2014
8965433	2	Lead	< 0.004	µg/m3	SW846 6010B	Filter	02/03/2014
8965429	3	Arsenic	< 0.004	µg/m3	SW846 6010B	Filter	02/05/2014
8965429	3	Lead	< 0.004	µg/m3	SW846 6010B	Filter	02/05/2014
8965428	4	Arsenic	< 0.004	µg/m3	SW846 6010B	Filter	02/05/2014
8965428	4	Lead	< 0.004	µg/m3	SW846 6010B	Filter	02/05/2014
8965423	5	Arsenic	< 0.004	µg/m3	SW846 6010B	Filter	02/07/2014
8965423	5	Lead	0.005	µg/m3	SW846 6010B	Filter	02/07/2014
8965422	6	Arsenic	< 0.004	µg/m3	SW846 6010B	Filter	02/07/2014
8965422	6	Lead	0.006	µg/m3	SW846 6010B	Filter	02/07/2014
8965409	7	Arsenic	< 0.004	µg/m3	SW846 6010B	Filter	02/10/2014
8965409	7	Lead	< 0.004	µg/m3	SW846 6010B	Filter	02/10/2014

SPECTRA LABORATORIES


Steve Hibbs, Laboratory Manager
a8/scj

CHAIN OF CUSTODY RECORD

2014020182



5219 N. Shirley Street, Suite 100, Tacoma, WA 98407
 Phone: 253-752-2185
 Fax: 253-752-7083

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS	REMARKS	
AIR monitoring		(Hi-VOL) Pt Ruston LCC				
SAMPLERS: (Signature)	<i>J. Babbila</i>					
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER	
2/3/14	OCF S		X		8965434	
2/3/14	OCF NW		X		8965433	
2/5/14	OCF S		X		8965429	
2/5/14	OCF NW		X		8965428	
2/7/14	OCF S		X		8965423	
2/7/14	OCF NW		X		8965422	
2/10/14	control				8965409	
2/10/14	HI-VOLUME SAMPLE LOG					
Relinquished (Signature)		Date/Time	Received by: (Signature)		Lab	Shipped via: FedEx, UPS or Other
<i>J. Babbila</i>		2/10/14 15:22	<i>[Signature]</i>		Spectrum	<i>Dry Ice</i>
Relinquished (Signature)		Date/Time	Received by: (Signature)		Remarks	
Relinquished (Signature)		Date/Time	Received for Laboratory by: (Signature)		Date/Time	Enclosed:
						<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter
Split Samples: [] Accepted [] Declined _____ <i>Signature</i>						



SPECTRA Laboratories

MAR 04 2014

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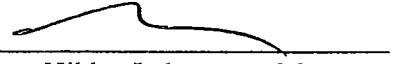
02/25/2014

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 02/18/2014
Spectra Project: 2014020432

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8965419	1	Arsenic	0.0017	µg/m3	SW846 6020A	Filter	02/10/2014
8965419	1	Lead	0.0042	µg/m3	SW846 6020A	Filter	02/10/2014
8965416	2	Arsenic	0.0011	µg/m3	SW846 6020A	Filter	02/10/2014
8965416	2	Lead	0.0048	µg/m3	SW846 6020A	Filter	02/10/2014
8965415	3	Arsenic	0.0014	µg/m3	SW846 6020A	Filter	02/10/2014
8965415	3	Lead	0.0055	µg/m3	SW846 6020A	Filter	02/10/2014
8965414	4	Arsenic	0.00060	µg/m3	SW846 6020A	Filter	02/12/2014
8965414	4	Lead	0.0031	µg/m3	SW846 6020A	Filter	02/12/2014
8965411	5	Arsenic	0.00074	µg/m3	SW846 6020A	Filter	02/12/2014
8965411	5	Lead	0.0036	µg/m3	SW846 6020A	Filter	02/12/2014
8965410	6	Arsenic	0.00061	µg/m3	SW846 6020A	Filter	02/12/2014
8965410	6	Lead	0.0044	µg/m3	SW846 6020A	Filter	02/12/2014
8965408	7	Arsenic	0.00079	µg/m3	SW846 6020A	Filter	02/14/2014
8965408	7	Lead	0.0023	µg/m3	SW846 6020A	Filter	02/14/2014
8965405	8	Arsenic	0.0011	µg/m3	SW846 6020A	Filter	02/14/2014
8965405	8	Lead	0.0039	µg/m3	SW846 6020A	Filter	02/14/2014

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager
a8/scj



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02/25/2014

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 02/18/2014
Spectra Project: 2014020432

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8965404	9	Arsenic	0.0011	µg/m3	SW846 6020A	Filter	02/14/2014
8965404	9	Lead	0.0034	µg/m3	SW846 6020A	Filter	02/14/2014

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager
a8/scj

CHAIN OF CUSTODY RECORD

POINT RUSTON
 5219 N. Shirley Street, Suite 100, Tacoma, WA 98407
 Phone: 253-752-2185
 Fax: 253-752-7083



2014020432

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS	REMARKS		
AIRMONITORING		Pt Ruston LLC (HI-VOL)					
SAMPLERS: (Signature) <i>D. Miller</i>							
DATE	STA #	TIME	COMP			GRAB	SAMPLE NUMBER
2/10/14	Lot 14B		X				8965419
2/10/14	Lot 8		X				8965416
2/10/14	Lot 14		X				8965415
2/12/14	Lot 4B		X				8965414
2/12/14	Lot 8		X				8965411
2/12/14	Lot 14		X		8965410		
2/14/14	Lot 4B		X		8965408		
2/14/14	Lot 8		X		8965405		
2/14/14	Lot 14		X		8965404		
2/18/14	Hi-Volume Sample Log						
Relinquished (Signature) <i>D. Miller</i>		Date/Time 2/18/14 14:30	Received by: (Signature)		Lab <i>Spectra</i>	Shipped via: FedEx, UPS or Other <i>UPS</i> Air Bill # <i>171</i>	
Relinquished (Signature)		Date/Time	Received by: (Signature)		Remarks		
Relinquished (Signature)		Date/Time	Received for Laboratory by: (Signature)		Date/Time	Enclosed: <input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter	
						Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined _____	
						Signature	



SPECTRA Laboratories

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RECEIVED
MAR 04 2014
BY:

02/27/2014

Point Ruston
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Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 02/18/2014
Spectra Project: 2014020392

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8965418	1	Arsenic	< 0.004	µg/m3	SW846 6010B	Filter	02/10/2014
8965418	1	Lead	< 0.004	µg/m3	SW846 6010B	Filter	02/10/2014
8965417	2	Arsenic	< 0.004	µg/m3	SW846 6010B	Filter	02/10/2014
8965417	2	Lead	0.005	µg/m3	SW846 6010B	Filter	02/10/2014
8965413	3	Arsenic	< 0.004	µg/m3	SW846 6010B	Filter	02/12/2014
8965413	3	Lead	0.005	µg/m3	SW846 6010B	Filter	02/12/2014
8965412	4	Arsenic	< 0.004	µg/m3	SW846 6010B	Filter	02/12/2014
8965412	4	Lead	< 0.004	µg/m3	SW846 6010B	Filter	02/12/2014
8965407	5	Arsenic	< 0.004	µg/m3	SW846 6010B	Filter	02/14/2014
8965407	5	Lead	< 0.004	µg/m3	SW846 6010B	Filter	02/14/2014
8965406	6	Arsenic	< 0.004	µg/m3	SW846 6010B	Filter	02/14/2014
8965406	6	Lead	< 0.004	µg/m3	SW846 6010B	Filter	02/14/2014

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a8/sej

CHAIN OF CUSTODY RECORD

2014020392

POINT RUSTON

5219 N. Shirley Street, Suite 100, Tacoma, WA 98407
Phone: 253-752-2185

Fax: 253-752-7083



PROJ. NO		PROJECT NAME				NO. OF CONTAINERS	REMARKS
AIR MONITORING		(H1.WL) Pt Ruston LLC					
		SAMPLERS: (Signature)					
<i>[Signature]</i>							
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER		
2/10/14	OCF S		X		8965418		
2/10/14	OCF NW		X		8965417		
2/12/14	OCF S		X		8965413		
2/12/14	OCF NW		X		8965412		
2/14/14	OCF S		X		8965407		
2/14/14	OCF NW		X		8965406		
2/18/14					141-WLume SW water log	JCP	
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab	Shipped via: FedEx, UPS or Other <input checked="" type="checkbox"/> <i>not</i>
<i>[Signature]</i>		2/18/14 14:30		<i>[Signature]</i>		Spectrum	Air Bill # <i>[Signature]</i>
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks	
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time	Enclosed:
							<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter
Split Samples: [] Accepted [] Declined _____ Signature							



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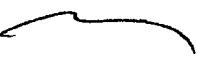
2/26/2014

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (Hi-Vol)
Date Received: 02/24/14
Spectra Project: 2014020538
RUSH

Spectra Number	Client ID	Analyte	Result	Units	Method	Matrix	Date Sampled
1	8932390	Arsenic	0.0013	µg/m³	SW846 6020A	Filter	2/21/2014
		Lead	0.0046	µg/m³	SW846 6020A		
2	8932385	Arsenic	0.0016	µg/m³	SW846 6020A	Filter	2/22/2014
		Lead	0.0053	µg/m³	SW846 6020A		
3	8932383	Arsenic	0.0013	µg/m³	SW846 6020A	Filter	2/23/2014
		Lead	0.0035	µg/m³	SW846 6020A		

SPECTRA LABORATORIES


Steve Hibbs, Laboratory Manager

CHAIN OF CUSTODY RECORD

2014020538



MAR 12 2014

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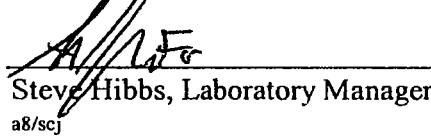
03/07/2014

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (Hi-Vol)
Date Received: 02/24/2014
Spectra Project: 2014020551

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8965403	1	Arsenic	0.00039	µg/m3	SW846 6020A	Filter	02/17/2014
8965403	1	Lead	0.00089	µg/m3	SW846 6020A	Filter	02/17/2014
8932400	2	Arsenic	0.00023	µg/m3	SW846 6020A	Filter	02/17/2014
8932400	2	Lead	0.00089	µg/m3	SW846 6020A	Filter	02/17/2014
8932399	3	Arsenic	0.00022	µg/m3	SW846 6020A	Filter	02/17/2014
8932399	3	Lead	0.00080	µg/m3	SW846 6020A	Filter	02/17/2014
8932398	4	Arsenic	0.00034	µg/m3	SW846 6020A	Filter	02/19/2014
8932398	4	Lead	0.00099	µg/m3	SW846 6020A	Filter	02/19/2014
8932395	5	Arsenic	0.00018	µg/m3	SW846 6020A	Filter	02/19/2014
8932395	5	Lead	0.00091	µg/m3	SW846 6020A	Filter	02/19/2014
8932394	6	Arsenic	0.00016	µg/m3	SW846 6020A	Filter	02/19/2014
8932394	6	Lead	0.0019	µg/m3	SW846 6020A	Filter	02/19/2014
8932393	7	Arsenic	0.00095	µg/m3	SW846 6020A	Filter	02/21/2014
8932393	7	Lead	0.0026	µg/m3	SW846 6020A	Filter	02/21/2014
8932389	8	Arsenic	0.0011	µg/m3	SW846 6020A	Filter	02/21/2014
8932389	8	Lead	0.0030	µg/m3	SW846 6020A	Filter	02/21/2014

SPECTRALABORATORIES


Steve Hibbs, Laboratory Manager
a8/scj

CHAIN OF CUSTODY RECORD

2014020551

POINT RUSTON

5219 N. Shirley Street, Suite 100, Tacoma, WA 98407
Phone: 253-752-2185

Fax: 253-752-7083



PROJ. NO		PROJECT NAME		NO. OF CONTAINERS	REMARKS
AIR MONITORING		(H-VOL) Pt Ruston LLC			
SAMPLERS: (Signature)		<i>D. Miller</i>			
DATE	STA #	TIME	COMP GRAB	SAMPLE NUMBER	
2/17/14	Lot 4B		X	8965403	1 X
2/17/14	Lot 8		X	8932400	1 X
2/17/14	Lot 14		X	8932399	1 X
2/19/14	Lot 4B		X	8932398	1 X
2/19/14	Lot 8		X	8932395	1 X
2/19/14	Lot 14		X	8932394	1 X
2/21/14	Lot 4B		X	8932393	1 X
2/21/14	Lot 14		X	8932389	1 X
2/24/14	<i>H-VOLUME SAMPLE LOT</i>				
Relinquished (Signature)		Date/Time		Received by: (Signature)	Lab
<i>D. Miller</i>		2/24/14 15:27		<i>R</i>	Shipped via: FedEx, UPS or Other <i>D. Miller</i> Air Bill # <i>Off</i>
Relinquished (Signature)		Date/Time		Received by: (Signature)	Remarks
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)	Date/Time
					Enclosed:
					<input type="checkbox"/> Parameter List with DTLs
					<input type="checkbox"/> Cover Letter
Split Samples: []Accepted []Declined _____					
<i>Signature</i>					

MAR 12 2014

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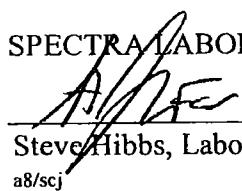
03/07/2014

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (Hi-Vol)
Date Received: 02/24/2014
Spectra Project: 2014020548

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8965402	1	Arsenic	< 0.004	µg/m3	SW846 6010B	Filter	02/17/2014
8965402	1	Lead	< 0.004	µg/m3	SW846 6010B	Filter	02/17/2014
8965401	2	Arsenic	< 0.004	µg/m3	SW846 6010B	Filter	02/17/2014
8965401	2	Lead	0.005	µg/m3	SW846 6010B	Filter	02/17/2014
8932397	3	Arsenic	< 0.004	µg/m3	SW846 6010B	Filter	02/18/2014
8932397	3	Lead	< 0.004	µg/m3	SW846 6010B	Filter	02/18/2014
8932396	4	Arsenic	< 0.004	µg/m3	SW846 6010B	Filter	02/18/2014
8932396	4	Lead	< 0.004	µg/m3	SW846 6010B	Filter	02/18/2014
8932392	5	Arsenic	< 0.004	µg/m3	SW846 6010B	Filter	02/21/2014
8932392	5	Lead	< 0.004	µg/m3	SW846 6010B	Filter	02/21/2014
8932391	6	Arsenic	< 0.004	µg/m3	SW846 6010B	Filter	02/21/2014
8932391	6	Lead	0.004	µg/m3	SW846 6010B	Filter	02/21/2014
8932376	7	Arsenic	< 0.004	µg/m3	SW846 6010B	Filter	02/24/2014
8932376	7	Lead	< 0.004	µg/m3	SW846 6010B	Filter	02/24/2014

SPECTRA LABORATORIES


Steve Hibbs, Laboratory Manager
a8/scj

CHAIN OF CUSTODY RECORD

2014020548

POINT RUSTON

5219 N. Shirley Street, Suite 100, Tacoma, WA 98407
Phone: 253-752-2185

PROJ. NO <u>AIR Monitoring</u>	PROJECT NAME <u>Pt Ruston LLC</u>		(HI-VOL)	NO. OF CONTAINERS <i>DB</i> <i>AS</i>	REMARKS
SAMPLERS: (Signature) <u>Schaller</u>					
DATE	STA #	TIME	COMP GRAB	SAMPLE NUMBER	
2/17/14	OCF S		X	8965402	1 X
2/17/14	OCF NW		X	8965401	1 X
2/19/14	OCF S		X	8932397	1 X
2/19/14	OCF NW		X	8932396	1 X
2/21/14	OCF S		X	8932392	1 X
2/21/14	OCF NW		X	8932391	1 X
2/24/14	Control			8932376	1 X
2/24/14	HI-VOLUME SAMPLER LOG				
Relinquished (Signature) <u>Schaller</u>		Date/Time 2/24/14 15:23	Received by: (Signature)	Lab Spectra	Shipped via: FedEx, UPS or Other <u>Dry off</u> Air Bill #
Relinquished (Signature)		Date/Time	Received by: (Signature)	Remarks	
Relinquished (Signature)		Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: <input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter
					Split Samples: []Accepted []Declined _____ Signature

MAR 04 2014

SPECTRA Laboratories

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02/28/2014

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (Hi-Vol)
Client ID: 8932378
Sample Matrix: Filter
Date Sampled: 02/26/2014
Date Received: 02/27/2014
Spectra Project: 2014020658
Spectra Number: 1
Rush

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Arsenic	0.0027	µg/m3	SW846 6020A
Lead	0.0098	µg/m3	SW846 6020A

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a6/scj

Page 1 of 1

CHAIN OF CUSTODY RECORD

2014020658



PROJ. NO AIR MONITORING	PROJECT NAME Pt Ruston LLC	(HI-VOL)	NO. OF CONTAINERS <i>As per Job</i>	REMARKS <i>AC2-MS</i> <i>Rust 24 hr</i>									
SAMPLERS: (Signature) <i>Dell'Orto</i>													
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER								
2/24/17	Lot 8		X		8932378	1	X						
2/27/17					Hi-volume sample lot 6								
Relinquished (Signature) <i>Dell'Orto</i>					Date/Time 2/27/14 15:24	Received by: (Signature) <i>K. De</i>	Lab <i>Spectra</i>	Shipped via: FedEx, UPS or Other <i>Direct off</i> Air Bill # <i>10007</i>					
Relinquished (Signature)					Date/Time	Received by: (Signature)	Remarks						
Relinquished (Signature)					Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: <input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter					
												Split Samples: <input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Declined	



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MAR 07 2014

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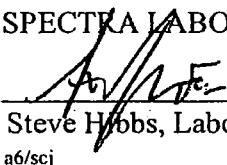
03/03/2014

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Client ID: 8932371
Sample Matrix: Filter
Date Sampled: 02/27/2014
Date Received: 02/28/2014
Spectra Project: 2014020681
Spectra Number: 1
Rush

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Arsenic	0.0034	µg/m3	SW846 6020A
Lead	0.0090	µg/m3	SW846 6020A

SPECTRA LABORATORIES



Steve Hobbs, Laboratory Manager
a6/scj

Page 1 of 1

CHAIN OF CUSTODY RECORD

20141020(08)



POINT RUSTON

5219 N. Shirley Street, Suite 100, Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

PROJ. NO AIR MONITORING	PROJECT NAME <i>(Hi-VOL)</i> Pt Ruston LLC	NO. OF CONTAINERS <i>AxP5</i>	REMARKS				
SAMPLERS: (Signature) <i>S. Miller</i>							
DATE	STA #	TIME	COMP GRAB	SAMPLE NUMBER	NO. OF CONTAINERS		
2/27/14	Lot 8		X	8932371	1	X	ICP-MS
2/28/14	—	—	—	41-VOLUME SAMPLE LOG	—	—	Rush 24hr
Relinquished (Signature) <i>S. Miller</i>	Date/Time 2/28/14 15:18	Received by: (Signature) <i>TD</i>	Lab Spectra	Shipped via: FedEx, UPS or Other Air Bill # <i>Duo Pak</i>			
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks				
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed:			
			<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter				
Split Samples: []Accepted []Declined					Signature		



SPECTRA Laboratories

MAR 07 2014

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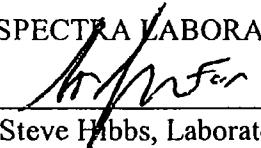
03/04/2014

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (Hi-Vol)
Date Received: 03/03/2014
Spectra Project: 2014030033
Rush

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8932369	1	Arsenic	0.0022	µg/m³	SW846 6020A	Filter	02/28/2014
8932369	1	Lead	0.0064	µg/m³	SW846 6020A	Filter	02/28/2014
8932365	2	Arsenic	0.0033	µg/m³	SW846 6020A	Filter	03/01/2014
8932365	2	Lead	0.0097	µg/m³	SW846 6020A	Filter	03/01/2014

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager
a8/scj

CHAIN OF CUSTODY RECORD

2014030033

POINT RUSTON

5219 N. Shirley Street, Suite 100, Tacoma, WA 98407
Phone: 253-752-2185 **Fax: 253-752-7083**





5219 N. Shirley Street, Suite 100
 Ruston, WA 98407
 Phone: 253-752-2185
 Fax: 253-752-7083

0.001414

0.004339

3.9

← Average of selected results
 (Continued average - all locations)

HI-VOLUME SAMPLER LOG

Location	Sample # Filter #	Start Date & Time	End Date & Time	HOURS		Total Metered Minutes	SCFM	SCF TOTAL	SCMM	SCM TOTAL	Avg. Temp. °F	Avg. Bar. Inch	Lab Results			NOTES	
				Filter Hrs:Min	Meter Start								As µg/m³	Pb µg/m³	TBP µg/m³		
CONTROL	8965425	2/3/14 0:00		0:00:00		0.00		0.00	0.00	0.00			<0.004	<0.004		UNUSED CONTROL SAMPLE	
Lot 4B	8965435	2/3/14 7:25	2/5/14 7:27	48:02:00	62878.21	62926.22	2,880.60	50.00	144,030.00	1.42	4,076.05	33.8	30.26	0.00110	0.00350	2.54	
OCF South	8965434	2/3/14 8:05	2/5/14 8:11	48:08:00	33793.52	33841.62	2,888.00	50.50	145,743.00	1.43	4,124.53	33.4	30.26	<0.004	<0.004	2.53	
OCF NW	8965433	2/3/14 8:11	2/5/14 8:21	48:10:00	62239.35	62287.51	2,889.60	50.50	145,924.80	1.43	4,129.67	33.4	30.26	<0.004	<0.004	2.53	
Lot 8	8965432	2/3/14 7:30	2/5/14 7:37	48:07:00	5574.63	5622.76	2,887.80	50.25	145,111.95	1.42	4,106.87	33.6	30.26	0.00180	0.00370	2.53	
Lot 14	8965431	2/3/14 7:45	2/5/14 7:50	48:05:00	6342.59	6390.68	2,885.40	49.25	139,220.55	1.37	3,939.94	33.5	30.26	0.00110	0.00320	2.53	
Lot 4B	8965430	2/5/14 7:31	2/7/14 7:23	47:52:00	62926.22	62974.08	2,871.60	50.25	144,287.90	1.42	4,083.63	25.8	30.11	0.00074	0.00320	2.65	
OCF South	8965429	2/5/14 8:15	2/7/14 8:26	48:11:00	33841.62	33889.80	2,890.80	50.25	145,262.70	1.42	4,110.93	25.8	30.10	<0.004	<0.004	2.79	
OCF NW	8965428	2/5/14 8:24	2/7/14 8:35	48:11:00	62287.51	62335.89	2,890.80	50.75	146,708.10	1.44	4,151.84	25.8	30.10	<0.004	<0.004	2.81	
Lot 8	8965427	2/5/14 7:41	2/7/14 7:35	47:54:00	5622.76	5670.86	2,874.00	50.75	145,855.50	1.44	4,127.71	25.8	30.11	0.00110	0.00480	2.68	
Lot 14	8965426	2/5/14 7:55	2/7/14 7:59	48:04:00	6390.68	6438.77	2,885.40	48.25	139,220.55	1.37	3,939.94	25.8	30.10	0.00120	0.00520	2.73	
Lot 4B	8965424	2/7/14 7:28	2/10/14 7:24	71:56:00	62974.08	63046.02	4,318.40	49.75	210,424.50	1.38	5,955.01	34.3	29.95	0.00380	0.00750	7.15	
OCF South	8965423	2/7/14 8:31	2/10/14 8:23	71:52:00	33889.80	33961.87	4,312.20	49.50	213,453.80	1.40	6,040.75	34.5	29.95	<0.004	0.00500	8.88	
OCF NW	8965422	2/7/14 8:38	2/10/14 8:33	71:55:00	62335.89	62407.61	4,315.20	50.00	215,760.00	1.42	6,106.01	34.5	29.95	<0.004	0.00600	8.63	
Lot 8	8965421	2/7/14 7:40	2/10/14 7:36	71:56:00	5670.86	5742.60	4,318.40	49.75	214,740.90	1.41	6,077.17	34.3	29.95	0.00520	0.00800	6.95	Brick Paver Dust
Lot 14	8965420	2/7/14 8:03	2/10/14 7:55	71:52:00	6438.77	6510.62	4,311.00	48.00	206,928.00	1.36	5,856.06	34.4	29.95	0.00420	0.01000	8.87	
CONTROL	8965409	2/10/14 0:00		0:00:00		0.00		0.00	0.00	0.00			<0.004	<0.004		UNUSED CONTROL SAMPLE	
Lot 4B	8965419	2/10/14 7:30	2/12/14 7:20	47:50:00	63046.02	63093.86	2,870.40	50.00	143,520.00	1.42	4,061.62	47.0	29.93	0.00170	0.00420	4.57	
OCF South	8965418	2/10/14 8:29	2/12/14 8:05	47:38:00	33961.87	34009.28	2,856.60	49.50	141,401.70	1.40	4,001.67	47.2	29.92	<0.004	<0.004	2.95	
OCF NW	8965417	2/10/14 8:38	2/12/14 8:15	47:37:00	62407.61	62455.24	2,857.80	49.75	142,175.55	1.41	4,023.57	47.3	29.92	<0.004	0.00500	2.93	
Lot 8	8965418	2/10/14 7:42	2/12/14 7:27	47:45:00	5742.60	5790.73	2,886.20	49.50	141,878.90	1.40	4,015.12	47.1	29.92	0.00110	0.00480	4.54	
Lot 14	8965415	2/10/14 8:00	2/12/14 7:45	47:45:00	6510.62	6558.32	2,862.00	50.00	143,100.00	1.42	4,049.73	47.1	29.92	0.00140	0.00550	4.52	
Lot 4B	8965414	2/12/14 7:24	2/14/14 7:28	48:04:00	63093.86	63141.93	2,884.20	49.75	143,488.95	1.41	4,060.74	48.8	29.85	0.00060	0.00310	5.99	
OCF South	8965413	2/12/14 8:10	2/14/14 8:09	47:59:00	34009.28	34057.27	2,879.40	50.00	143,970.00	1.42	4,074.35	48.8	29.85	<0.004	0.00500	6.04	
OCF NW	8965412	2/12/14 8:18	2/14/14 8:17	47:59:00	62455.24	62503.23	2,879.40	49.50	142,530.30	1.40	4,033.61	48.9	29.85	<0.004	0.00400	6.04	
Lot 8	8965411	2/12/14 7:30	2/14/14 7:35	48:05:00	5790.73	5838.44	2,884.20	50.00	144,210.00	1.42	4,081.14	48.8	29.85	0.00074	0.00360	6.00	
Lot 14	8965410	2/12/14 7:49	2/14/14 7:50	48:01:00	6558.32	6606.35	2,881.80	50.75	146,251.35	1.44	4,138.91	48.8	29.85	0.00061	0.00440	6.01	
Lot 4B	8965408	2/14/14 7:34	2/17/14 7:25	71:51:00	63141.93	63213.81	4,312.80	50.25	218,718.20	1.42	6,133.13	43.7	29.75	0.00079	0.00230	5.90	
OCF South	8965407	2/14/14 8:14	2/17/14 8:08	71:54:00	34057.27	34129.17	4,314.00	50.50	217,857.00	1.43	6,165.35	43.8	29.75	<0.004	<0.004	5.90	
OCF NW	8965406	2/14/14 8:18	2/17/14 8:18	71:57:00	62503.23	62575.17	4,316.40	49.75	214,740.90	1.41	6,077.17	43.8	29.75	<0.004	<0.004	5.90	
Lot 8	8965405	2/14/14 7:38	2/16/14 1:00	41:22:00	5838.44	5879.28	2,450.40	50.50	123,745.28	1.43	3,501.99	44.3	29.71	0.00110	0.00390	7.79	Short Run Time
Lot 14	8965404	2/14/14 7:54	2/17/14 7:47	71:53:00	6606.35	6678.25	4,314.00	50.00	215,700.00	1.42	6,104.31	43.8	29.75	0.00110	0.00340	5.90	
Lot 4B	8965403	2/17/14 7:29	2/19/14 7:27	47:58:00	63213.81	63261.78	2,878.20	50.25	144,629.55	1.42	4,093.02	42.9	29.83	0.00039	0.00089	2.76	
OCF South	8965402	2/17/14 8:12	2/19/14 8:04	47:52:00	34129.17	34177.04	2,872.20	50.50	145,046.10	1.43	4,104.80	42.9	29.83	<0.004	<0.004	2.84	
OCF NW	8965401	2/17/14 8:22	2/19/14 8:14	47:52:00	62575.17	62623.05	2,872.80	49.75	142,921.80	1.41	4,044.69	42.9	29.83	<0.004	0.00500	2.86	
Lot 8	8965400	2/17/14 9:54	2/17/14 10:50	0:56:00	5879.28	5880.23	51.60					44.2	29.78			Calibrated Correlation .997 NB (PW)	
Lot 8	8932400	2/17/14 10:56	2/19/14 7:31	44:35:00	5880.23	5924.82	2,875.40	50.25	134,438.85	1.42	3,804.62	42.9	29.83	0.00023	0.00089	2.93	
Lot 14	8932399	2/17/14 7:51	2/19/14 7:44	47:53:00	6678.25	6726.12	2,873.40	50.75	145,825.05	1.44	4,126.85	42.9	29.83	0.00022	0.00080	2.79	
Lot 4B	8932398	2/19/14 7:30	2/21/14 7:22	47:52:00	63281.78	63309.85	2,872.20	50.25	144,328.05	1.42	4,064.48	43.9	30.13	0.00034	0.00099	4.59	
OCF South	8932397	2/19/14 8:09	2/21/14 8:05	47:56:00	34177.04	34224.97	2,875.80	50.50	145,227.90	1.43	4,109.95	43.9	30.13	<0.004	<0.004	4.66	
OCF NW	8932396	2/19/14 8:17	2/21/14 8:13	47:56:00	62623.05	62670.97	2,875.20	49.75	143,041.20	1.41	4,048.07	43.9	30.13	<0.004	<0.004	4.66	
Lot 8	8932395	2/19/14 7:35	2/21/14 7:26	47:51:00	5924.82	5972.67	2,871.00	50.50	144,985.50	1.43	4,103.09	43.9	30.13	0.00018	0.00091	4.58	
Lot 14	8932394	2/19/14 7:49	2/21/14 7:45	47:56:00	6728.14	6774.09	2,877.00	50.75	146,007.75	1.44	4,132.02	43.9	30.13	0.00018	0.00190	4.83	
Lot 4B	8932393	2/21/14 7:25	2/24/14 7:30	72:05:00	63309.65	6381.73	4,324.80	50.75	218,483.80	1.44	6,211.39	40.7	30.11	0.00095	0.00260	3.43	
OCF South	8932392	2/21/14 8:09	2/24/14 8:12	72:03:00	34224.97	34297.02	4,323.00	50.00	216,150.00	1.42	6,111.04	40.7	30.11	<0.004	<0.004	3.44	
OCF NW	8932391	2/21/14 8:17	2/24/14 8:22	72:05:00	62670.97	62743.07	4,326.00	50.25	217,381.00	1.42	6,151.90	40.7	30.11	<0.004	0.00400	3.45	
Lot 8	8932390	2/21/14 7:30	2/22/14 7:38	24:08:00	5972.67	5996.82	1,449.00	50.00	72,450.00	1.42	2,050.33	40.3	30.25	0.00130	0.00460	4.59	Rush Analysis - Phase 2 - Lot 1 Excavation
Lot 14	8932389	2/21/14 7:49	2/24/14 7:51	72:02:00	6774.09	6846.13	4,322.40	51.00	220,442.40	1.44	6,238.52	40.7	30.11	0.00110	0.00300	3.43	
Lot 8	8932385	2/22/14 7:41	2/23/14 7:50	24:09:00	5996.82	6020.97											



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0.001414 0.004339 3.9
← Average of selected results
(Combined average - all locations)

0.02 (alpha) 0.73 (dpm)
.2 (alpha) 0.15 (Ra-D)
.004 (Ra-D) 81
← Current Action Levels

HI-VOLUME SAMPLER LOG

Location	Sample # Filter #	Start Date & Time	End Date & Time	Filter Hrs:Min	HOURS		Total Metered Minutes	SCFM	SCF TOTAL	SCMM	SCM TOTAL	Avg. Temp. °F	Avg. Bar. Inch	Lab Results			NOTES
					Meter Start	Meter End								As µg/m³	Pb µg/m³	TSP µg/m³	
OCF NW	8932379	2/26/14 8:14	2/28/14 8:18	48.04:00	62790.83	62838.90	2,884.20	49.50	142,767.90	1.40	4,040.33	45.4	29.73		3.44		
Lot 8	8932378	2/26/14 7:31	2/27/14 7:51	24.20:00	6092.50	6116.83	1,459.80	49.75	72,625.05	1.41	2,055.29	46.4	29.76	0.00270	0.00980	2.92	Rush Analysis - Phase 2 - Lot 1 Excavation
Lot 8	8932371	2/27/14 7:53	2/28/14 7:33	23:40:00	6116.83	6140.47	1,418.40	50.00	70,920.00	1.42	2,007.04	46.2	29.71	0.00340	0.00900	4.63	Rush Analysis - Phase 2 - Lot 1 Excavation
Lot 14	8932377	2/26/14 7:46	2/28/14 7:47	48:01:00	6893.94	6941.95	2,880.60	50.50	145,470.30	1.43	4,116.81	46.3	29.73			3.57	
Lot 4B	8932374	2/28/14 7:32	3/3/14 7:25	71:53:00	63475.12	63547.00	4,312.80	49.50	213,483.50	1.40	6,041.59	45.1	29.62			2.65	
OCF South	8932373	2/28/14 8:13	3/3/14 8:08	71:55:00	34392.82	34464.72	4,314.00	50.50	217,857.00	1.43	6,165.35	45.1	29.62			2.61	
OCF NW	8932372	2/28/14 8:22	3/3/14 8:19	71:57:00	62838.90	62910.85	4,317.00	50.00	215,850.00	1.42	6,108.55	45.2	29.62			2.60	
Lot 8	8932369	2/28/14 7:36	3/1/14 7:25	23:49:00	6140.47	6162.93	1,347.60	48.31	65,102.56	1.37	1,842.40	47.2	29.55	0.00220	0.00640	2.96	Rush Analysis - Phase 2 - Lot 1 Excavation (power loss)
Lot 14	8932370	2/28/14 7:50	3/3/14 7:45	71:55:00	6941.95	7013.87	4,315.20	51.00	220,075.20	1.44	6,228.13	45.1	29.62			2.63	



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HIGH VOLUME (TSP) SAMPLER CALIBRATION

STATION NAME	Lot 8		DATE	2/17/2014	
ORIFICE ID	207 D		CALIBRATED BY:	Pat W	
MOTOR NO.	1011314		NEW / REPAIRS ? Brushes		
TEMPERATURE	9	C	282 K (Ta)	INSPECTION:	TRANSFORMER <input checked="" type="checkbox"/>
PRESSURE	29.79	in Hg	757 mm Hg (Pa)	TRANSDUCER	<input checked="" type="checkbox"/>
			SHELTER <input checked="" type="checkbox"/>	POWER CORD <input checked="" type="checkbox"/>	
			PLATFORM <input checked="" type="checkbox"/>	TIMER <input checked="" type="checkbox"/>	

MANOMETER (2.8" - 6")		DICKSON CFM	TOTAL * C	SQUARE ROOT	(SQUARE ROOT -0.02006) * D (Qstd b)	Last column * 35.3
LEFT	RIGHT	TOTAL				
3.60	3.60	7.20	60.00	7.449861327	2.72944341	1.819868221
3.20	3.20	6.40	57.50	6.622098957	2.573343925	1.715017615
2.90	2.90	5.80	54.75	6.00127718	2.449750432	1.632000989
2.50	2.50	5.00	52.50	5.17351481	2.274536175	1.514311164
2.10	2.10	4.20	49.25	4.345752441	2.084646838	1.386764222

Qstd
cfm

$$\text{Pa} / \text{Ta} * 295/765 = \underline{1.03470296204} = \text{C}$$

BEST FIT LINE:

$$1 / m = 1 / 1.48878 = \underline{0.671690915} = \text{D}$$

$$(Qstd m) \quad m = \frac{1.419922212}{\text{Slope}} \text{ b} + \underline{-20.85192404}$$

$$\text{Intercept} \quad \underline{0.997995364}$$

$$\text{correlation} =$$

1. Get readings. 2. Run a linear regression on Total VS CFM Is correlation better than 0.98?

3. Complete the remaining operations in the table above, which equal the following operation:

$$\text{Qstd} = 1 / m ((\text{SQRT} (\text{TOTAL}(\text{Pa} / 765) (295 / \text{Ta}))) - \text{b})$$

4. Run a linear regression on CFM vs Qstd. Use this equation of line for the calibration sheet.



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HIGH VOLUME (TSP) SAMPLER CALIBRATION

STATION NAME	<u>Lot 4B</u>		DATE	<u>2/25/2014</u>	
ORIFICE ID	<u>207D</u>		CALIBRATED BY:	<u>Pat W</u>	
MOTOR NO.	<u>1022514</u>		NEW / REPAIRS ? <u>Motor</u>		
TEMPERATURE	<u>9</u> C	<u>282</u> K (Ta)	INSPECTION: <u>TRANSFORMER</u> <input checked="" type="checkbox"/>		
PRESSURE	<u>30.15</u> in Hg	<u>766</u> mm Hg (Pa)	TRANSDUCER <input checked="" type="checkbox"/>		
			SHELTER <input checked="" type="checkbox"/>	POWER CORD <input checked="" type="checkbox"/>	
			PLATFORM <input checked="" type="checkbox"/>	TIMER <input checked="" type="checkbox"/>	

MANOMETER (2.8" - 6")		TOTAL	DICKSON CFM	TOTAL * C	SQUARE ROOT	(SQUARE ROOT -0.02006) * D (Qstd b)	Last column * 35.3
3.80	3.80	7.60	60.00	7.958772632	2.821129673	1.881453051	66.4152927
3.50	3.50	7.00	57.75	7.330448477	2.707480097	1.805115663	63.7205829
3.10	3.10	6.20	54.00	6.492682937	2.548074359	1.698044277	59.940963
2.60	2.60	5.20	50.00	5.445476012	2.333554373	1.553953152	54.8545463
2.20	2.20	4.40	46.25	4.607710471	2.146557819	1.428349265	50.4207291

Qstd
cfm

$$\text{Pa/Ta} * 295/765 = \underline{1.04720692532} = C$$

BEST FIT LINE:

$$1/m = 1/1.48878 = \underline{0.671690915} = D$$

$$m = \frac{1.160231019}{\text{Slope}} b + \frac{-3.117959818}{\text{Intercept}}$$

correlation = 0.999523878

1. Get readings. 2. Run a linear regression on Total VS CFM Is correlation better than 0.98?

3. Complete the remaining operations in the table above, which equal the following operation:

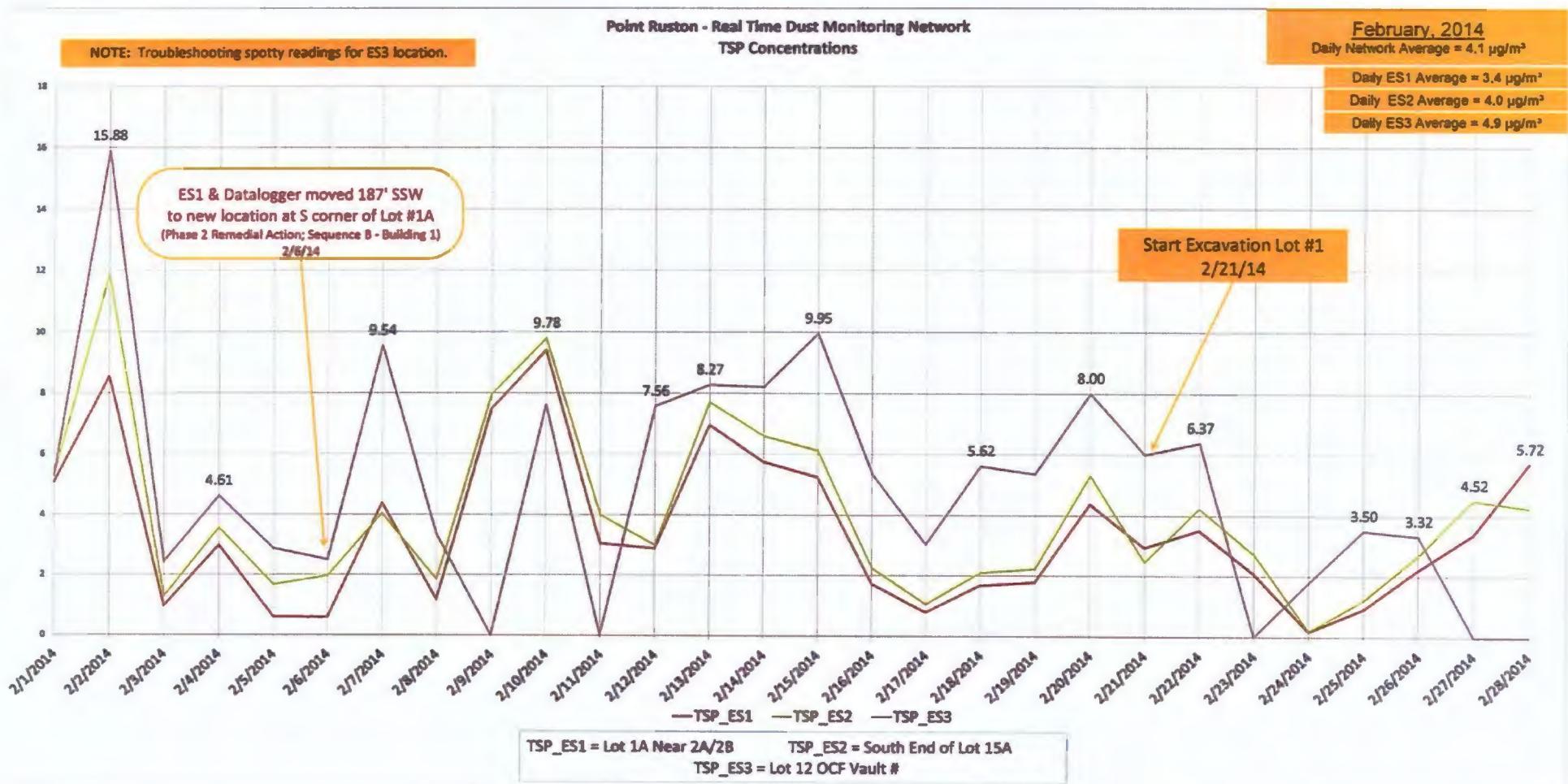
$$Qstd = 1/m ((\text{SQRT}(TOTAL(\text{Pa} / 765)) * 295 / Ta)) - b)$$

4. Run a linear regression on CFM vs Qstd. Use this equation of line for the calibration sheet.

Monthly Report 213, February 2014
Operable Unit 02
Asarco Tacoma Smelter Site

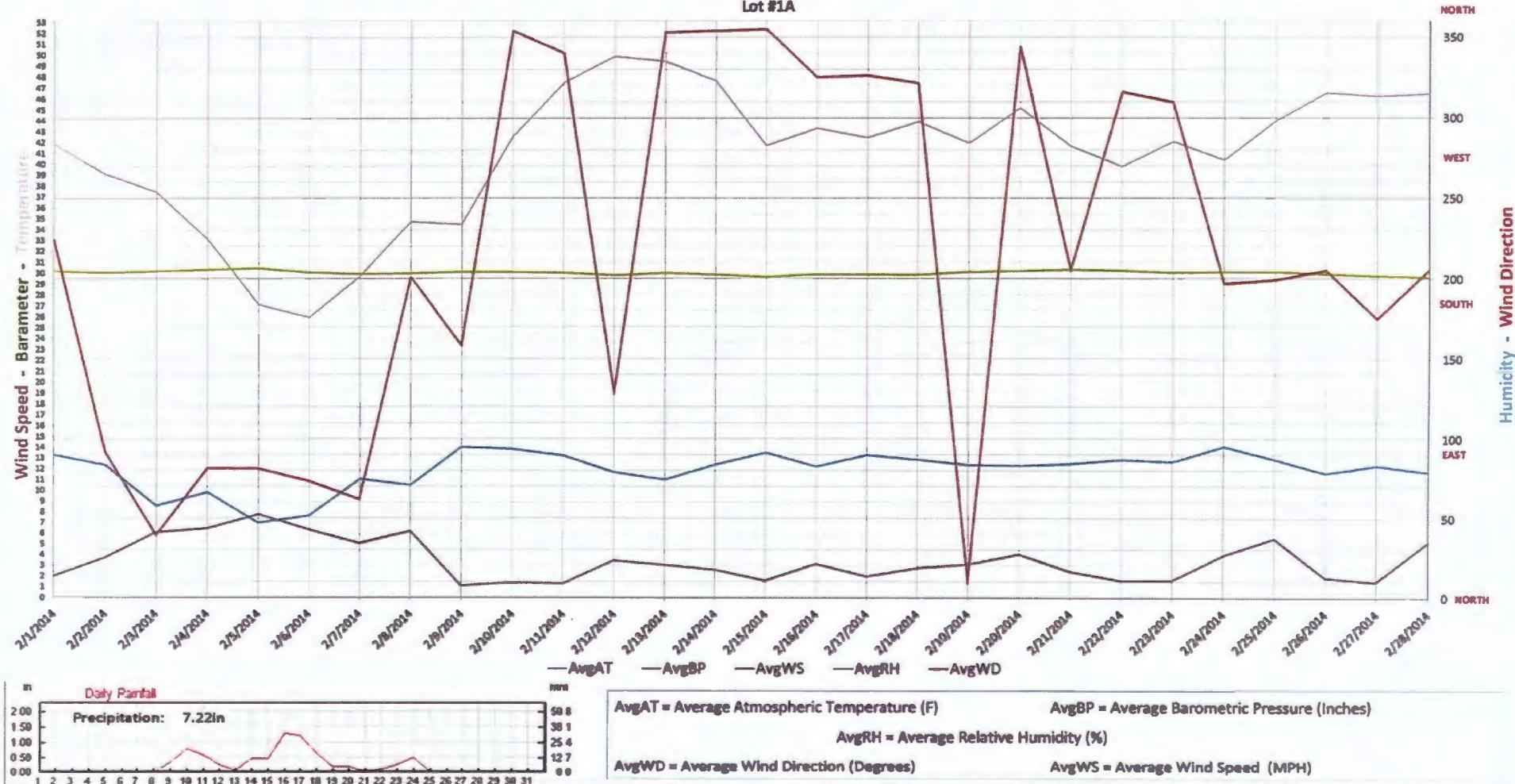
**TOTAL SUSPENDED PARTICULATE
MONITORING
DATA
(E-SAMPLER NETWORK)**

Reference	Date	Description
Monthly TSP Chart	02/01 – 02/28	Chart showing 60-minute averages for February 2014
Monthly Met Data Chart	02/01 – 02/28	Chart showing meteorological data averages for February 2014
Data	02/01 – 02/28	60-minute TSP network data logger values for February 2014 (14 pgs.)
Memo	02/8	Off Site Dust Report (Non-Exceedance)



Point Ruston - Real Time Dust Monitoring Network
 Meteorological Data
 Lot #1A

February, 2014



Real Time Total Suspended Particulate Monitoring (TSP)

60-Minute Averages

February 2014

(ES1 - ES2 - ES3)

TOAS	CR1000	CR1000	52276	CR1000.Std.25	CPU:94661-S2.CR1	6251	Table60				
TIMESTAMP	RECORD	ID(1)	SN(1)	TSP_ES1	ID(2)	SN(2)	TSP_ES2	ID(3)	SN(3)	TSP_ES3	
TS	RN			mg/M^3			mg/M^3			mg/M^3	
		Smp	Smp	Avg	Smp	Smp	Avg	Smp	Smp	Avg	
2/1/2014 0:00	663	1	P10327	4.767			3.927			5	
2/1/2014 1:00	664	1	P10327	5.833			5.388			6	
2/1/2014 2:00	665	1	P10327	7.883	2	P11106	5.902			NAN	
2/1/2014 3:00	666	1	P10327	5.76			5.16			0	
2/1/2014 4:00	667	1	P10327	4.328	2	P11106	4.799			NAN	
2/1/2014 5:00	668	1	P10327	6.872	2	P11106	6.295			NAN	
2/1/2014 6:00	669	1	P10327	5.406			5.906			NAN	
2/1/2014 7:00	670	1	P10327	6.433	2	P11106	7.196			NAN	
2/1/2014 8:00	671	1	P10327	6.4	2	P11106	6.478			NAN	
2/1/2014 9:00	672	1	P10327	6.561	2	P11106	5.938			NAN	
2/1/2014 10:00	673	1	P10327	5.861	2	P11106	6.191			8	
2/1/2014 11:00	674	1	P10327	8.03	2	P11106	8.66			NAN	
2/1/2014 12:00	675	1	P10327	6.35	2	P11106	8.52			NAN	
2/1/2014 13:00	676	1	P10327	3.644			4.173			NAN	
2/1/2014 14:00	677	1	P10327	3.094	2	P11106	4.537			NAN	
2/1/2014 15:00	678	1	P10327	3.85	2	P11106	4.415			NAN	
2/1/2014 16:00	679	1	P10327	3.422	2	P11106	3.805			NAN	
2/1/2014 17:00	680	1	P10327	0.756	2	P11106	3.213			NAN	
2/1/2014 18:00	681	1	P10327	2.217	2	P11106	1.641			NAN	
2/1/2014 19:00	682	1	P10327	4.172	2	P11106	3.464			NAN	
2/1/2014 20:00	683	1	P10327	2.156			2.949			NAN	
2/1/2014 21:00	684	1	P10327	3.95	2	P11106	5.38			NAN	
2/1/2014 22:00	685	1	P10327	5.472	2	P11106	4.746			7	
2/1/2014 23:00	686	1	P10327	4.256	2	P11106	5.17			NAN	
2/2/2014 0:00	687	1	P10327	8.69	2	P11106	6.139			NAN	
2/2/2014 1:00	688	1	P10327	8.9			5.778			19	
2/2/2014 2:00	689	1	P10327	5.933	2	P11106	7.675			NAN	
2/2/2014 3:00	690	1	P10327	7	2	P11106	7.897	3	P10329	11.31	
2/2/2014 4:00	691	1	P10327	5.511	2	P11106	7.944			10.57	
2/2/2014 5:00	692	1	P10327	23.69			11.38			NAN	
2/2/2014 6:00	693	1	P10327	13.07	2	P11106	5.514			24.4	
2/2/2014 7:00	694	1	P10327	5.828	2	P11106	5.762			NAN	
2/2/2014 8:00	695	1	P10327	33.5			71.62			14.5	
2/2/2014 9:00	696	1	P10327	14.44	2	P11106	26.96			NAN	
2/2/2014 10:00	697	1	P10327	43.58	2	P11106	67.8			NAN	
2/2/2014 11:00	698	1	P10327	9.13	2	P11106	12.94			17.33	
2/2/2014 12:00	699	1	P10327	8.34	2	P11106	12.58			NAN	
2/2/2014 13:00	700	1	P10327	7.017	2	P11106	8.41			NAN	
2/2/2014 14:00	701	1	P10327	7.456	2	P11106	6.768			NAN	
2/2/2014 15:00	702	1	P10327	4.828	2	P11106	5.895			NAN	
2/2/2014 16:00	703	1	P10327	3.439			4.163			NAN	
2/2/2014 17:00	704	1	P10327	0.517	2	P11106	0.844			NAN	
2/2/2014 18:00	705	1	P10327	1.028	2	P11106	0.44			NAN	
2/2/2014 19:00	706	1	P10327	0.494	2	P11106	0.758			NAN	
2/2/2014 20:00	707	1	P10327	0.028	2	P11106	0.563			NAN	
2/2/2014 21:00	708	1	P10327	0	2	P11106	0.077			NAN	
2/2/2014 22:00	709	1	P10327	0	2	P11106	0.091			NAN	
2/2/2014 23:00	710	1	P10327	0.289	2	P11106	1.091			NAN	
2/3/2014 0:00	711	1	P10327	0.211	2	P11106	1.214			NAN	

Real Time Total Suspended Particulate Monitoring (TSP)

60-Minute Averages

February 2014

(ES1 - ES2 - ES3)

TIMESTAMP	RECORD	ID(1)	SN(1)	TSP_ES1	ID(2)	SN(2)	TSP_ES2	ID(3)	SN(3)	TSP_ES3
TS	RN			mg/M^3			mg/M^3			mg/M^3
		Smp	Smp	Avg	Smp	Smp	Avg	Smp	Smp	Avg
2/3/2014 1:00	712	1	P10327	0.306	2	P11106	0.444			NAN
2/3/2014 2:00	713	1	P10327	1.006			0.956			2
2/3/2014 3:00	714	1	P10327	0.711			1.233			NAN
2/3/2014 4:00	715	1	P10327	0.906	2	P11106	1.174			NAN
2/3/2014 5:00	716	1	P10327	1.733	2	P11106	2.114			NAN
2/3/2014 6:00	717	1	P10327	1.333	2	P11106	1.83			3
2/3/2014 7:00	718	1	P10327	2.033			1.587			3.588
2/3/2014 8:00	719	1	P10327	1.917	2	P11106	2			2.862
2/3/2014 9:00	720	1	P10327	1.278	2	P11106	2.917	3	P10329	3.357
2/3/2014 10:00	721	1	P10327	1.994	2	P11106	3.066	3	P10329	5.158
2/3/2014 11:00	722	1	P10327	2.011	2	P11106	1.793	3	P10329	3.319
2/3/2014 12:00	723	1	P10327	0.289			0.862	3	P10329	2.477
2/3/2014 13:00	724	1	P10327	0.017			1.537	3	P10329	2.644
2/3/2014 14:00	725	1	P10327	0.789	2	P11106	1.779			2.188
2/3/2014 15:00	726	1	P10327	1.267	2	P11106	2.006			1.261
2/3/2014 16:00	727	1	P10327	0.411	2	P11106	0.619	3	P10329	1.111
2/3/2014 17:00	728	1	P10327	0.989	2	P11106	0.611	3	P10329	1.208
2/3/2014 18:00	729	1	P10327	0.956	2	P11106	0.336	3	P10329	1.636
2/3/2014 19:00	730	1	P10327	0.172	2	P11106	0.096	3	P10329	0.67
2/3/2014 20:00	731	1	P10327	0.306	2	P11106	0.608	3	P10329	1.811
2/3/2014 21:00	732	1	P10327	0.883	2	P11106	0.429	3	P10329	2.084
2/3/2014 22:00	733	1	P10327	0.95	2	P11106	0.697	3	P10329	2.678
2/3/2014 23:00	734	1	P10327	0.467	2	P11106	1.053			2.495
2/4/2014 0:00	735	1	P10327	0.078	2	P11106	0.915	3	P10329	2.817
2/4/2014 1:00	736	1	P10327	0.283	2	P11106	1.235	3	P10329	3.153
2/4/2014 2:00	737	1	P10327	3.428	2	P11106	3.719	3	P10329	3.826
2/4/2014 3:00	738	1	P10327	8.35	2	P11106	7.787	3	P10329	9.54
2/4/2014 4:00	739	1	P10327	10.57	2	P11106	12.12	3	P10329	13.55
2/4/2014 5:00	740	1	P10327	13.44	2	P11106	15.7			16.53
2/4/2014 6:00	741	1	P10327	14.29	2	P11106	12.66	3	P10329	17.22
2/4/2014 7:00	742	1	P10327	3.783	2	P11106	5.728			9.7
2/4/2014 8:00	743	1	P10327	1.533	2	P11106	1.222	3	P10329	3
2/4/2014 9:00	744	1	P10327	0.6	2	P11106	1.098	3	P10329	2.52
2/4/2014 10:00	745	1	P10327	1.639			3.056			3.547
2/4/2014 11:00	746	1	P10327	3.45			3.135			3.814
2/4/2014 12:00	747	1	P10327	1.633	2	P11106	1.577	3	P10329	2.698
2/4/2014 13:00	748	1	P10327	0.228	2	P11106	2.623	3	P10329	1.99
2/4/2014 14:00	749	1	P10327	0.272	2	P11106	1.557	3	P10329	2.567
2/4/2014 15:00	750	1	P10327	0.367	2	P11106	1.621			2.345
2/4/2014 16:00	751	1	P10327	0.294			2.189			1.051
2/4/2014 17:00	752	1	P10327	1.139	2	P11106	0.125	3	P10329	1.25
2/4/2014 18:00	753	1	P10327	0.644	2	P11106	0.431	3	P10329	1.635
2/4/2014 19:00	754	1	P10327	1.011	2	P11106	0.767	3	P10329	2.167
2/4/2014 20:00	755	1	P10327	0.878	2	P11106	0.863	3	P10329	2.057
2/4/2014 21:00	756	1	P10327	1.472	2	P11106	2.787	3	P10329	2.135
2/4/2014 22:00	757	1	P10327	0.622	2	P11106	0.162	3	P10329	1.905
2/4/2014 23:00	758	1	P10327	0.772	2	P11106	0.356	3	P10329	1.929
2/5/2014 0:00	759	1	P10327	0.922	2	P11106	0.592	3	P10329	2.032
2/5/2014 1:00	760	1	P10327	1.106	2	P11106	0.617	3	P10329	1.542
2/5/2014 2:00	761	1	P10327	0.167	2	P11106	1.07	3	P10329	1.705

Real Time Total Suspended Particulate Monitoring (TSP)

60-Minute Averages

February 2014

(ES1 - ES2 - ES3)

TIMESTAMP	RECORD	ID(1)	SN(1)	TSP_ES1	ID(2)	SN(2)	TSP_ES2	ID(3)	SN(3)	TSP_ES3
TS	RN			mg/M^3			mg/M^3			mg/M^3
		Smp	Smp	Avg	Smp	Smp	Avg	Smp	Smp	Avg
2/5/2014 3:00	762	1	P10327	0.017	2	P11106	1.33	3	P10329	1.297
2/5/2014 4:00	763	1	P10327	0.944	2	P11106	1.45	3	P10329	1.12
2/5/2014 5:00	764	1	P10327	0.122	2	P11106	0.032	3	P10329	1.939
2/5/2014 6:00	765	1	P10327	0	2	P11106	0.213	3	P10329	2.708
2/5/2014 7:00	766	1	P10327	0.378	2	P11106	0.486			2.167
2/5/2014 8:00	767	1	P10327	0.372	2	P11106	3.572	3	P10329	1.872
2/5/2014 9:00	768	1	P10327	0.517	2	P11106	2.751	3	P10329	3.141
2/5/2014 10:00	769	1	P10327	0.728	2	P11106	5.109	3	P10329	8.09
2/5/2014 11:00	770	1	P10327	0.139			0.902	3	P10329	5.761
2/5/2014 12:00	771	1	P10327	1.089			5.151			2.874
2/5/2014 13:00	772	1	P10327	1.389			1.371	3	P10329	6.906
2/5/2014 14:00	773	1	P10327	0.639	2	P11106	2.12			6.475
2/5/2014 15:00	774	1	P10327	0.033	2	P11106	3.132	3	P10329	1.661
2/5/2014 16:00	775	1	P10327	1.083	2	P11106	1.226	3	P10329	1.631
2/5/2014 17:00	776	1	P10327	0.317	2	P11106	0.791			1
2/5/2014 18:00	777	1	P10327	0.133	2	P11106	0.125	3	P10329	0.533
2/5/2014 19:00	778	1	P10327	1.278	2	P11106	0.43			0.893
2/5/2014 20:00	779	1	P10327	1.017			2.617			2.197
2/5/2014 21:00	780	1	P10327	0.306	2	P11106	0.723			1.957
2/5/2014 22:00	781	1	P10327	1.394	2	P11106	2.261			2.446
2/5/2014 23:00	782	1	P10327	0.906			1.373			2.333
2/6/2014 0:00	783	1	P10327	0.417	2	P11106	1.629	3	P10329	2.914
2/6/2014 1:00	784	1	P10327	0.033			1.357			2.467
2/6/2014 2:00	785	1	P10327	0.272			0.93			2.13
2/6/2014 3:00	786	1	P10327	0.011	2	P11106	0.919	3	P10329	2.7
2/6/2014 4:00	787	1	P10327	0.183			0	3	P10329	2.301
2/6/2014 5:00	788	1	P10327	0.033			NAN	3	P10329	1.368
2/6/2014 6:00	789	1	P10327	0.05			0	3	P10329	1.716
2/6/2014 7:00	790	1	P10327	0.622			NAN	3	P10329	1.662
2/6/2014 8:00	791	1	P10327	0.311	2	P11106	1.326	3	P10329	2.94
2/6/2014 9:00	792	1	P10327	1.272			1.585			3.5
2/6/2014 10:00	793	1	P10327	0.094			5.5	3	P10329	3.5
2/6/2014 11:00	794	1	P10327	0.217			4.545			3.328
2/6/2014 12:00	795	1	P10327	0.133			2.705			2.88
2/6/2014 15:00	796	1	P10327	4.147			0	3	P10329	2.195
2/6/2014 16:00	797	1	P10327	0.711	2	P11106	1.036			3.013
2/6/2014 17:00	798	1	P10327	0.4	2	P11106	1.265			2.278
2/6/2014 18:00	799	1	P10327	1.611			1.755			2.542
2/6/2014 19:00	800	1	P10327	1.544	2	P11106	0.92			2.667
2/6/2014 20:00	801	1	P10327	0.811			2.051	3	P10329	2.68
2/6/2014 21:00	802	1	P10327	0.239	2	P11106	0.678	3	P10329	1.768
2/6/2014 22:00	803	1	P10327	0.444	2	P11106	3.055			2.354
2/6/2014 23:00	804	1	P10327	0.756	2	P11106	3.257	3	P10329	3.2
2/7/2014 0:00	805	1	P10327	1.867	2	P11106	3.327	3	P10329	4.221
2/7/2014 1:00	806	1	P10327	3.278	2	P11106	3.494	3	P10329	5.358
2/7/2014 2:00	807	1	P10327	2.611	2	P11106	3.55	3	P10329	7.193
2/7/2014 3:00	808	1	P10327	4.044	2	P11106	4.443	3	P10329	9.87
2/7/2014 4:00	809	1	P10327	4.8	2	P11106	6.55			13.44
2/7/2014 5:00	810	1	P10327	4.3	2	P11106	6.618	3	P10329	8.64
2/7/2014 6:00	811	1	P10327	5.428	2	P11106	5.121	3	P10329	10.84

Real Time Total Suspended Particulate Monitoring (TSP)

60-Minute Averages

February 2014

(ES1 - ES2 - ES3)

TIMESTAMP	RECORD	ID(1)	SN(1)	TSP_ES1	ID(2)	SN(2)	TSP_ES2	ID(3)	SN(3)	TSP_ES3
TS	RN			mg/M^3			mg/M^3			mg/M^3
		Smp	Smp	Avg	Smp	Smp	Avg	Smp	Smp	Avg
2/7/2014 7:00	812	1	P10327	6.233			5.304			15.33
2/7/2014 8:00	813	1	P10327	5.961	2	P11106	6.138			11.14
2/7/2014 9:00	814	1	P10327	7.494	2	P11106	7.208			9.92
2/7/2014 10:00	815	1	P10327	27.16	2	P11106	6.957			9.33
2/7/2014 11:00	816	1	P10327	5.267	2	P11106	6.722			NAN
2/7/2014 12:00	817	1	P10327	2.572	2	P11106	2.679			NAN
2/7/2014 13:00	818	1	P10327	2.122	2	P11106	1.785			NAN
2/7/2014 14:00	819	1	P10327	1.6	2	P11106	4.361			NAN
2/7/2014 15:00	820	1	P10327	1.961	2	P11106	2.933			NAN
2/7/2014 16:00	821	1	P10327	2.406			3.014			NAN
2/7/2014 17:00	822	1	P10327	2.483			2.935			NAN
2/7/2014 18:00	823	1	P10327	2.139	2	P11106	1.837			NAN
2/7/2014 19:00	824	1	P10327	1.806	2	P11106	2.498			NAN
2/7/2014 20:00	825	1	P10327	4.278	2	P11106	2.941			NAN
2/7/2014 21:00	826	1	P10327	2.422	2	P11106	2.864			6
2/7/2014 22:00	827	1	P10327	1.922			3.118			NAN
2/7/2014 23:00	828	1	P10327	1.844	2	P11106	1.5			NAN
2/8/2014 0:00	829	1	P10327	1.206	2	P11106	2.512			NAN
2/8/2014 1:00	830	1	P10327	2.133			1.857			3
2/8/2014 2:00	831	1	P10327	1.5	2	P11106	2.213			NAN
2/8/2014 3:00	832	1	P10327	0.828	2	P11106	1.77			NAN
2/8/2014 4:00	833	1	P10327	0.311	2	P11106	1.232			NAN
2/8/2014 5:00	834	1	P10327	1.272	2	P11106	0.955			NAN
2/8/2014 6:00	835	1	P10327	1.461			1.86			NAN
2/8/2014 7:00	836	1	P10327	0.367	2	P11106	1.244			NAN
2/8/2014 8:00	837	1	P10327	1.333	2	P11106	0.66			NAN
2/8/2014 9:00	838	1	P10327	0.428	2	P11106	0.549			NAN
2/8/2014 10:00	839	1	P10327	0.506	2	P11106	1.531			5
2/8/2014 11:00	840	1	P10327	1.461	2	P11106	1.245			NAN
2/8/2014 12:00	841	1	P10327	0.056	2	P11106	0.92			NAN
2/8/2014 13:00	842	1	P10327	1.25	2	P11106	2.19			NAN
2/8/2014 14:00	843	1	P10327	0.833	2	P11106	1.21			NAN
2/8/2014 15:00	844	1	P10327	0.728	2	P11106	1.66			NAN
2/8/2014 16:00	845	1	P10327	2.317	2	P11106	1.78			2
2/8/2014 17:00	846	1	P10327	1.567			1.338			NAN
2/8/2014 18:00	847	1	P10327	1.572	2	P11106	1.559			NAN
2/8/2014 19:00	848	1	P10327	0.1	2	P11106	3.394			NAN
2/8/2014 20:00	849	1	P10327	4.206	2	P11106	5.445			NAN
2/8/2014 21:00	850	1	P10327	2.578	2	P11106	4.261			NAN
2/8/2014 22:00	851	1	P10327	0.189	2	P11106	2.205			NAN
2/8/2014 23:00	852	1	P10327	0.544	2	P11106	1.912			NAN
2/9/2014 0:00	853	1	P10327	0.472	2	P11106	0.871			NAN
2/9/2014 1:00	854	1	P10327	0.344	2	P11106	1.532			NAN
2/9/2014 2:00	855	1	P10327	0.389	2	P11106	1.547			NAN
2/9/2014 3:00	856	1	P10327	5.233	2	P11106	6.821			NAN
2/9/2014 4:00	857	1	P10327	6.778	2	P11106	8.86			NAN
2/9/2014 5:00	858	1	P10327	7.072	2	P11106	8.7			NAN
2/9/2014 6:00	859	1	P10327	5.883	2	P11106	8.22			NAN
2/9/2014 7:00	860	1	P10327	7.211	2	P11106	9.14			NAN
2/9/2014 8:00	861	1	P10327	10.12	2	P11106	10.1			NAN

Real Time Total Suspended Particulate Monitoring (TSP)

60-Minute Averages

February 2014

(ES1 - ES2 - ES3)

TIMESTAMP	RECORD	ID(1)	SN(1)	TSP_ES1	ID(2)	SN(2)	TSP_ES2	ID(3)	SN(3)	TSP_ES3
		TS	RN	mg/M^3			mg/M^3			mg/M^3
		Smp	Smp	Avg	Smp	Smp	Avg	Smp	Smp	Avg
2/9/2014 9:00	862	1	P10327	11.48	2	P11106	9.72			NAN
2/9/2014 10:00	863	1	P10327	8.83	2	P11106	6.246			NAN
2/9/2014 11:00	864	1	P10327	3.011	2	P11106	4.258			NAN
2/9/2014 12:00	865	1	P10327	3.189	2	P11106	6.05			NAN
2/9/2014 13:00	866	1	P10327	0.683	2	P11106	2.533			NAN
2/9/2014 14:00	867	1	P10327	0.383	2	P11106	2.525			NAN
2/9/2014 15:00	868	1	P10327	0.478	2	P11106	3.477			NAN
2/9/2014 16:00	869	1	P10327	2.711	2	P11106	3.492			NAN
2/9/2014 17:00	870	1	P10327	4.294	2	P11106	5.238			NAN
2/9/2014 18:00	871	1	P10327	4.044	2	P11106	4.906			NAN
2/9/2014 19:00	872	1	P10327	6.322			5.447			NAN
2/9/2014 20:00	873	1	P10327	8.67	2	P11106	7.869			NAN
2/9/2014 21:00	874	1	P10327	10.37	2	P11106	10.22			NAN
2/9/2014 22:00	875	1	P10327	19.46	2	P11106	16.7			NAN
2/9/2014 23:00	876	1	P10327	23.87	2	P11106	26.76			NAN
2/10/2014 0:00	877	1	P10327	28.81	2	P11106	21.6			NAN
2/10/2014 1:00	878	1	P10327	20.01	2	P11106	18.5			NAN
2/10/2014 2:00	879	1	P10327	20.79	2	P11106	22.48			NAN
2/10/2014 3:00	880	1	P10327	22.24	2	P11106	19.31			NAN
2/10/2014 4:00	881	1	P10327	23.69	2	P11106	19.21			NAN
2/10/2014 5:00	882	1	P10327	28.83			31.02			NAN
2/10/2014 6:00	883	1	P10327	31.54	2	P11106	31.73			NAN
2/10/2014 7:00	884	1	P10327	18.41	2	P11106	17.76			NAN
2/10/2014 8:00	885	1	P10327	12.33			11.39			NAN
2/10/2014 9:00	886	1	P10327	2.833	2	P11106	4.448			7.364
2/10/2014 10:00	887	1	P10327	5.217	2	P11106	6.081			NAN
2/10/2014 11:00	888	1	P10327	13.41	2	P11106	14.64			NAN
2/10/2014 12:00	889	1	P10327	9.34	2	P11106	10.16			NAN
2/10/2014 13:00	890	1	P10327	0.022	2	P11106	1.4			NAN
2/10/2014 14:00	891	1	P10327	0.028	2	P11106	1.411			NAN
2/10/2014 15:00	892	1	P10327	0.206	2	P11106	0.577			NAN
2/10/2014 16:00	893	1	P10327	0.644	2	P11106	1.739			NAN
2/10/2014 17:00	894	1	P10327	1.628	2	P11106	2.753			NAN
2/10/2014 18:00	895	1	P10327	1.783	2	P11106	2.721			NAN
2/10/2014 19:00	896	1	P10327	0.606	2	P11106	1.597			NAN
2/10/2014 20:00	897	1	P10327	0.911			1.959			NAN
2/10/2014 21:00	898	1	P10327	1.556	2	P11106	2.375			NAN
2/10/2014 22:00	899	1	P10327	2.55	2	P11106	4.059			NAN
2/10/2014 23:00	900	1	P10327	3.422	2	P11106	4.148			NAN
2/11/2014 0:00	901	1	P10327	2.583	2	P11106	3.04			NAN
2/11/2014 1:00	902	1	P10327	2.278	2	P11106	3.279			NAN
2/11/2014 2:00	903	1	P10327	1.856	2	P11106	2.387			NAN
2/11/2014 3:00	904	1	P10327	2.678			3.936			NAN
2/11/2014 4:00	905	1	P10327	1.989	2	P11106	3.391			NAN
2/11/2014 5:00	906	1	P10327	4.306			5.891			NAN
2/11/2014 6:00	907	1	P10327	4.233	2	P11106	5.636			NAN
2/11/2014 7:00	908	1	P10327	4.383	2	P11106	6.072			NAN
2/11/2014 8:00	909	1	P10327	8.37	2	P11106	7.975			NAN
2/11/2014 9:00	910	1	P10327	9.17	2	P11106	9.26			NAN
2/11/2014 10:00	911	1	P10327	8.2	2	P11106	8.48			NAN

Real Time Total Suspended Particulate Monitoring (TSP)

60-Minute Averages

February 2014

(ES1 - ES2 - ES3)

TIMESTAMP	RECORD	ID(1)	SN(1)	TSP_ES1	ID(2)	SN(2)	TSP_ES2	ID(3)	SN(3)	TSP_ES3
TS	RN			mg/M^3			mg/M^3			mg/M^3
		Smp	Smp	Avg	Smp	Smp	Avg	Smp	Smp	Avg
2/11/2014 11:00	912	1	P10327	6.128	2	P11106	6.96			NAN
2/11/2014 12:00	913	1	P10327	3.722	2	P11106	7.327			NAN
2/11/2014 13:00	914	1	P10327	4.889	2	P11106	6.871			NAN
2/11/2014 14:00	915	1	P10327	2.6	2	P11106	4.411			NAN
2/11/2014 15:00	916	1	P10327	2.828			2.97			NAN
2/11/2014 16:00	917	1	P10327	2.65	2	P11106	2.764			NAN
2/11/2014 17:00	918	1	P10327	0.472	2	P11106	1.605			NAN
2/11/2014 18:00	919	1	P10327	0.567	2	P11106	1.756			NAN
2/11/2014 19:00	920	1	P10327	0	2	P11106	0.559			NAN
2/11/2014 20:00	921	1	P10327	0.017			0.06			NAN
2/11/2014 21:00	922	1	P10327	0.433			0.989			NAN
2/11/2014 22:00	923	1	P10327	0.228			1.042			NAN
2/11/2014 23:00	924	1	P10327	1.006			2.198			NAN
2/12/2014 0:00	925	1	P10327	0	2	P11106	0.293			NAN
2/12/2014 1:00	926	1	P10327	1.089	2	P11106	0.964			NAN
2/12/2014 2:00	927	1	P10327	0.194	2	P11106	0.278			NAN
2/12/2014 3:00	928	1	P10327	0	2	P11106	0.226			NAN
2/12/2014 4:00	929	1	P10327	0.033	2	P11106	0.037			NAN
2/12/2014 5:00	930	1	P10327	0.2	2	P11106	0.151			NAN
2/12/2014 6:00	931	1	P10327	0.7			0.401			NAN
2/12/2014 7:00	932	1	P10327	0	2	P11106	0.037			NAN
2/12/2014 8:00	933	1	P10327	0	2	P11106	0.077			NAN
2/12/2014 9:00	934	1	P10327	0.383	2	P11106	1.64			NAN
2/12/2014 10:00	935	1	P10327	3.933	2	P11106	3.727			NAN
2/12/2014 11:00	936	1	P10327	5.95	2	P11106	7.024			NAN
2/12/2014 12:00	937	1	P10327	6.806	2	P11106	7.39			NAN
2/12/2014 13:00	938	1	P10327	7.344	2	P11106	6.252			NAN
2/12/2014 14:00	939	1	P10327	5.494	2	P11106	6.778			NAN
2/12/2014 15:00	940	1	P10327	3.306			4.809			NAN
2/12/2014 16:00	941	1	P10327	3.033	2	P11106	3.745			NAN
2/12/2014 17:00	942	1	P10327	2.661	2	P11106	3.605			NAN
2/12/2014 18:00	943	1	P10327	2.561	2	P11106	1.292			NAN
2/12/2014 19:00	944	1	P10327	5.256	2	P11106	4.567		7	
2/12/2014 20:00	945	1	P10327	5.094	2	P11106	3.814			NAN
2/12/2014 21:00	946	1	P10327	5.406	2	P11106	4.36			8.17
2/12/2014 22:00	947	1	P10327	4.817	2	P11106	4.725			8
2/12/2014 23:00	948	1	P10327	3.794	2	P11106	4.297			6
2/13/2014 0:00	949	1	P10327	1.361	2	P11106	2.34			2
2/13/2014 1:00	950	1	P10327	0.15			1.909			NAN
2/13/2014 2:00	951	1	P10327	1.044	2	P11106	2.276			2
2/13/2014 3:00	952	1	P10327	3.583	2	P11106	4.44			11
2/13/2014 4:00	953	1	P10327	5.556	2	P11106	5.801			13
2/13/2014 5:00	954	1	P10327	5.95			6.366			4
2/13/2014 6:00	955	1	P10327	4.794	2	P11106	6.434			NAN
2/13/2014 7:00	956	1	P10327	6.567	2	P11106	8.31			9
2/13/2014 8:00	957	1	P10327	8.74	2	P11106	8.77			15
2/13/2014 9:00	958	1	P10327	7.961	2	P11106	8.76			NAN
2/13/2014 10:00	959	1	P10327	10.45	2	P11106	13.3			NAN
2/13/2014 11:00	960	1	P10327	9.95	2	P11106	10.48			NAN
2/13/2014 12:00	961	1	P10327	10.83	2	P11106	13.46			NAN

Real Time Total Suspended Particulate Monitoring (TSP)

60-Minute Averages

February 2014

(ES1 - ES2 - ES3)

TIMESTAMP	RECORD	ID(1)	SN(1)	TSP_ES1	ID(2)	SN(2)	TSP_ES2	ID(3)	SN(3)	TSP_ES3
		TS	RN	mg/M^3			mg/M^3			mg/M^3
		Smp	Smp	Avg	Smp	Smp	Avg	Smp	Smp	Avg
2/13/2014 13:00	962	1	P10327	12.47	2	P11106	12.06			10
2/13/2014 14:00	963	1	P10327	11.04	2	P11106	10.04			NAN
2/13/2014 15:00	964	1	P10327	9.61	2	P11106	8.1			NAN
2/13/2014 16:00	965	1	P10327	7.928			7.744			6
2/13/2014 17:00	966	1	P10327	6.494	2	P11106	7.367			NAN
2/13/2014 18:00	967	1	P10327	8.12	2	P11106	8.58			7
2/13/2014 19:00	968	1	P10327	6.611	2	P11106	9.58			NAN
2/13/2014 20:00	969	1	P10327	6.183	2	P11106	8.69			9
2/13/2014 21:00	970	1	P10327	7.361	2	P11106	7.463			7
2/13/2014 22:00	971	1	P10327	8.13			7.016			NAN
2/13/2014 23:00	972	1	P10327	4.011	2	P11106	4.345			3
2/14/2014 0:00	973	1	P10327	3.628	2	P11106	4.128			NAN
2/14/2014 1:00	974	1	P10327	4.306	2	P11106	4.567			NAN
2/14/2014 2:00	975	1	P10327	4.144	2	P11106	5.888			9
2/14/2014 3:00	976	1	P10327	3.9	2	P11106	4.232			9.67
2/14/2014 4:00	977	1	P10327	1.456	2	P11106	1.282			NAN
2/14/2014 5:00	978	1	P10327	0.394	2	P11106	0.867			3.167
2/14/2014 6:00	979	1	P10327	0.406			0.628			0.286
2/14/2014 7:00	980	1	P10327	0.094	2	P11106	1.428			NAN
2/14/2014 8:00	981	1	P10327	2.6	2	P11106	3.431			NAN
2/14/2014 9:00	982	1	P10327	5.278	2	P11106	5.467			NAN
2/14/2014 10:00	983	1	P10327	6.733	2	P11106	9.19			18
2/14/2014 11:00	984	1	P10327	8.34	2	P11106	9.62			NAN
2/14/2014 12:00	985	1	P10327	6.272	2	P11106	9.29			NAN
2/14/2014 13:00	986	1	P10327	9.11	2	P11106	11.1			NAN
2/14/2014 14:00	987	1	P10327	7.394	2	P11106	7.629			NAN
2/14/2014 15:00	988	1	P10327	8.06	2	P11106	8.5			15
2/14/2014 16:00	989	1	P10327	7.428	2	P11106	9.01			NAN
2/14/2014 17:00	990	1	P10327	9.27	2	P11106	8.15			NAN
2/14/2014 18:00	991	1	P10327	6.039	2	P11106	6.521			NAN
2/14/2014 19:00	992	1	P10327	6.244	2	P11106	6.97			NAN
2/14/2014 20:00	993	1	P10327	8.16	2	P11106	8.04			NAN
2/14/2014 21:00	994	1	P10327	8.67	2	P11106	9.79			NAN
2/14/2014 22:00	995	1	P10327	8.44	2	P11106	9.45			20
2/14/2014 23:00	996	1	P10327	7.133	2	P11106	8.12	3	P10329	6.5
2/15/2014 0:00	997	1	P10327	8.27	2	P11106	9.32			NAN
2/15/2014 1:00	998	1	P10327	7.372	2	P11106	8.97			14
2/15/2014 2:00	999	1	P10327	7.783	2	P11106	6.643			15
2/15/2014 3:00	1000	1	P10327	6.767	2	P11106	8.84			11.8
2/15/2014 4:00	1001	1	P10327	8.56	2	P11106	8.89	3	P10329	11.92
2/15/2014 5:00	1002	1	P10327	5.789			7.23			10.67
2/15/2014 6:00	1003	1	P10327	7.728	2	P11106	8.67	3	P10329	14.76
2/15/2014 7:00	1004	1	P10327	9.04	2	P11106	7.95			11.9
2/15/2014 8:00	1005	1	P10327	7.211	2	P11106	7.396	3	P10329	11.47
2/15/2014 9:00	1006	1	P10327	7.028	2	P11106	7.631	3	P10329	9.66
2/15/2014 10:00	1007	1	P10327	4.75	2	P11106	4.601			7.84
2/15/2014 11:00	1008	1	P10327	2.622			4.014			5.684
2/15/2014 12:00	1009	1	P10327	3.072			5.64			7
2/15/2014 13:00	1010	1	P10327	6.222	2	P11106	7.973			NAN
2/15/2014 14:00	1011	1	P10327	4.944	2	P11106	7.031			10

Real Time Total Suspended Particulate Monitoring (TSP)

60-Minute Averages

February 2014

(ES1 - ES2 - ES3)

TIMESTAMP	RECORD	ID(1)	SN(1)	TSP_ES1	ID(2)	SN(2)	TSP_ES2	ID(3)	SN(3)	TSP_ES3
		TS	RN	mg/M^3			mg/M^3			mg/M^3
		Smp	Smp	Avg	Smp	Smp	Avg	Smp	Smp	Avg
2/15/2014 15:00	1012	1	P10327	4.306	2	P11106	5.172			NAN
2/15/2014 16:00	1013	1	P10327	6.044			6.43			NAN
2/15/2014 17:00	1014	1	P10327	7.511	2	P11106	8.61			NAN
2/15/2014 18:00	1015	1	P10327	1.85	2	P11106	2.17			NAN
2/15/2014 19:00	1016	1	P10327	0.289	2	P11106	0.337			NAN
2/15/2014 20:00	1017	1	P10327	1.233	2	P11106	1.753			NAN
2/15/2014 21:00	1018	1	P10327	4.45	2	P11106	5.357		9	
2/15/2014 22:00	1019	1	P10327	2.372	2	P11106	3.035			NAN
2/15/2014 23:00	1020	1	P10327	4.206	2	P11106	5.389	3	P10329	12.4
2/16/2014 0:00	1021	1	P10327	4.711	2	P11106	7.091			13
2/16/2014 1:00	1022	1	P10327	3.294	2	P11106	5.786			6.2
2/16/2014 2:00	1023	1	P10327	1.906	2	P11106	2.451			NAN
2/16/2014 3:00	1024	1	P10327	1.261	2	P11106	1.472			3.5
2/16/2014 4:00	1025	1	P10327	1.05			0.599			2
2/16/2014 5:00	1026	1	P10327	1.556	2	P11106	2.288			6.5
2/16/2014 6:00	1027	1	P10327	1.656	2	P11106	2.569			5.875
2/16/2014 7:00	1028	1	P10327	2.011			1.704			3.4
2/16/2014 8:00	1029	1	P10327	1.5	2	P11106	0.866			NAN
2/16/2014 9:00	1030	1	P10327	0.344	2	P11106	1.433			2.8
2/16/2014 10:00	1031	1	P10327	2.7	2	P11106	3.142	3	P10329	7.765
2/16/2014 11:00	1032	1	P10327	2.533			3.689			8.33
2/16/2014 12:00	1033	1	P10327	3.672	2	P11106	5.03			4
2/16/2014 13:00	1034	1	P10327	2.811			3.636			NAN
2/16/2014 14:00	1035	1	P10327	3.839	2	P11106	3.803			NAN
2/16/2014 15:00	1036	1	P10327	2.772	2	P11106	2.873			NAN
2/16/2014 16:00	1037	1	P10327	2.3	2	P11106	2.896			NAN
2/16/2014 17:00	1038	1	P10327	1.483	2	P11106	1.688			NAN
2/16/2014 18:00	1039	1	P10327	0.339	2	P11106	0.523			NAN
2/16/2014 19:00	1040	1	P10327	0.45	2	P11106	0.156			NAN
2/16/2014 20:00	1041	1	P10327	0.656	2	P11106	1.333			NAN
2/16/2014 21:00	1042	1	P10327	1.044			1.727			7
2/16/2014 22:00	1043	1	P10327	0.439	2	P11106	0.551			NAN
2/16/2014 23:00	1044	1	P10327	0.906	2	P11106	0.754			NAN
2/17/2014 0:00	1045	1	P10327	0.789	2	P11106	2.509			NAN
2/17/2014 1:00	1046	1	P10327	0.183			0.513			0
2/17/2014 2:00	1047	1	P10327	0.05	2	P11106	0.062			5
2/17/2014 3:00	1048	1	P10327	0.1			0.823			0
2/17/2014 4:00	1049	1	P10327	0.267	2	P11106	0.157			NAN
2/17/2014 5:00	1050	1	P10327	0.133	2	P11106	0			NAN
2/17/2014 6:00	1051	1	P10327	0.017	2	P11106	0.084			NAN
2/17/2014 7:00	1052	1	P10327	0.067	2	P11106	0.118			3
2/17/2014 8:00	1053	1	P10327	0.033	2	P11106	0.198			1.8
2/17/2014 9:00	1054	1	P10327	0.117	2	P11106	0.06			1
2/17/2014 10:00	1055	1	P10327	0	2	P11106	0.02			NAN
2/17/2014 11:00	1056	1	P10327	0.133	2	P11106	1.029			4
2/17/2014 12:00	1057	1	P10327	0.033			0.239			NAN
2/17/2014 13:00	1058	1	P10327	0.406	2	P11106	0.04			2.167
2/17/2014 14:00	1059	1	P10327	0.294	2	P11106	0.212			NAN
2/17/2014 15:00	1060	1	P10327	0.033	2	P11106	0.645			NAN
2/17/2014 16:00	1061	1	P10327	0.217			1.399			NAN

Real Time Total Suspended Particulate Monitoring (TSP)

60-Minute Averages

February 2014

(ES1 - ES2 - ES3)

TIMESTAMP	RECORD	ID(1)	SN(1)	TSP_ES1	ID(2)	SN(2)	TSP_ES2	ID(3)	SN(3)	TSP_ES3
TS	RN			mg/M^3			mg/M^3			mg/M^3
		Smp	Smp	Avg	Smp	Smp	Avg	Smp	Smp	Avg
2/17/2014 17:00	1062	1	P10327	1.5	2	P11106	2.472			NAN
2/17/2014 18:00	1063	1	P10327	1.189	2	P11106	1.602			NAN
2/17/2014 19:00	1064	1	P10327	2.661	2	P11106	2.418			7
2/17/2014 20:00	1065	1	P10327	2.817	2	P11106	2.257			0
2/17/2014 21:00	1066	1	P10327	1.944	2	P11106	3.057			7.5
2/17/2014 22:00	1067	1	P10327	2.064	2	P11106	3.427			6
2/17/2014 23:00	1068	1	P10327	2.031	2	P11106	2.554			4
2/18/2014 0:00	1069	1	P10327	2.689	2	P11106	2.03			NAN
2/18/2014 1:00	1070	1	P10327	2.589	2	P11106	2.973			5.889
2/18/2014 2:00	1071	1	P10327	1.328	2	P11106	1.233			3.333
2/18/2014 3:00	1072	1	P10327	0.286			1.721			4
2/18/2014 4:00	1073	1	P10327	0.369	2	P11106	1.821			4
2/18/2014 5:00	1074	1	P10327	0.033	2	P11106	0.389			2.333
2/18/2014 6:00	1075	1	P10327	0.15	2	P11106	0.747			NAN
2/18/2014 7:00	1076	1	P10327	0.05	2	P11106	0.033			NAN
2/18/2014 8:00	1077	1	P10327	0.067	2	P11106	1			NAN
2/18/2014 9:00	1078	1	P10327	0.361	2	P11106	1.943			NAN
2/18/2014 10:00	1079	1	P10327	1.753	2	P11106	1.556			5.286
2/18/2014 11:00	1080	1	P10327	0.917			0.568			NAN
2/18/2014 12:00	1081	1	P10327	0.103	2	P11106	0.209			NAN
2/18/2014 13:00	1082	1	P10327	0.167	2	P11106	0.097			1.667
2/18/2014 14:00	1083	1	P10327	0.167	2	P11106	0.094			1.833
2/18/2014 15:00	1084	1	P10327	0.433	2	P11106	0.191			NAN
2/18/2014 16:00	1085	1	P10327	1.358	2	P11106	2.405			2
2/18/2014 17:00	1086	1	P10327	3.503	2	P11106	3.3			NAN
2/18/2014 18:00	1087	1	P10327	2.303	2	P11106	3.707			8.17
2/18/2014 19:00	1088	1	P10327	5.228	2	P11106	4.632			6
2/18/2014 20:00	1089	1	P10327	2.836	2	P11106	3.494			9
2/18/2014 21:00	1090	1	P10327	3.161	2	P11106	2.808			NAN
2/18/2014 22:00	1091	1	P10327	4.567	2	P11106	5.696			11
2/18/2014 23:00	1092	1	P10327	4.022	2	P11106	5.043			10
2/19/2014 0:00	1093	1	P10327	4.394			4.727			NAN
2/19/2014 1:00	1094	1	P10327	2.311	2	P11106	2.913			6
2/19/2014 2:00	1095	1	P10327	5.033	2	P11106	3.893			8
2/19/2014 3:00	1096	1	P10327	2.878	2	P11106	1.654			6.044
2/19/2014 4:00	1097	1	P10327	0.906	2	P11106	2.137			4.176
2/19/2014 5:00	1098	1	P10327	1.033	2	P11106	0.769			4.625
2/19/2014 6:00	1099	1	P10327	1.364			1.884			4.667
2/19/2014 7:00	1100	1	P10327	0.767	2	P11106	1.446			4.8
2/19/2014 8:00	1101	1	P10327	3.164	2	P11106	3.601			5.5
2/19/2014 9:00	1102	1	P10327	4.044	2	P11106	4.057			10
2/19/2014 10:00	1103	1	P10327	3.914			4.877			7
2/19/2014 11:00	1104	1	P10327	1.378	2	P11106	2.827			5.5
2/19/2014 12:00	1105	1	P10327	0.153	2	P11106	1.204			NAN
2/19/2014 13:00	1106	1	P10327	0.433	2	P11106	2.962			NAN
2/19/2014 14:00	1107	1	P10327	0.283	2	P11106	1.65			NAN
2/19/2014 15:00	1108	1	P10327	0.947			1.881			NAN
2/19/2014 16:00	1109	1	P10327	3.594	2	P11106	2.876			NAN
2/19/2014 17:00	1110	1	P10327	2.272	2	P11106	2.353			NAN
2/19/2014 18:00	1111	1	P10327	3.25	2	P11106	2.88			NAN

Real Time Total Suspended Particulate Monitoring (TSP)

60-Minute Averages

February 2014

(ES1 - ES2 - ES3)

TIMESTAMP	RECORD	ID(1)	SN(1)	TSP_ES1	ID(2)	SN(2)	TSP_ES2	ID(3)	SN(3)	TSP_ES3
TS	RN			mg/M^3			mg/M^3			mg/M^3
		Smp	Smp	Avg	Smp	Smp	Avg	Smp	Smp	Avg
2/19/2014 19:00	1112	1	P10327	3.781	2	P11106	3.29			NAN
2/19/2014 20:00	1113	1	P10327	0.372	2	P11106	0.859			NAN
2/19/2014 21:00	1114	1	P10327	0.147	2	P11106	1.291			NAN
2/19/2014 22:00	1115	1	P10327	0.153	2	P11106	1.647			NAN
2/19/2014 23:00	1116	1	P10327	0.167	2	P11106	0.112			NAN
2/20/2014 0:00	1117	1	P10327	0.017	2	P11106	0			NAN
2/20/2014 1:00	1118	1	P10327	0.05			0.039			NAN
2/20/2014 2:00	1119	1	P10327	0.283			0.061			NAN
2/20/2014 3:00	1120	1	P10327	0.131	2	P11106	0.11			NAN
2/20/2014 4:00	1121	1	P10327	0.069			0.164			NAN
2/20/2014 5:00	1122	1	P10327	2.639	2	P11106	3.135			NAN
2/20/2014 6:00	1123	1	P10327	5.044	2	P11106	5.786			NAN
2/20/2014 7:00	1124	1	P10327	8.63	2	P11106	9.4			NAN
2/20/2014 8:00	1125	1	P10327	13.49	2	P11106	14.55			NAN
2/20/2014 9:00	1126	1	P10327	12.73	2	P11106	15.14			NAN
2/20/2014 10:00	1127	1	P10327	11.29	2	P11106	12.21			NAN
2/20/2014 11:00	1128	1	P10327	10.01			9.68			10
2/20/2014 12:00	1129	1	P10327	9.96	2	P11106	9.28			17
2/20/2014 13:00	1130	1	P10327	5.114	2	P11106	5.465			NAN
2/20/2014 14:00	1131	1	P10327	5.414	2	P11106	4.573			NAN
2/20/2014 15:00	1132	1	P10327	1.919			3.927			NAN
2/20/2014 16:00	1133	1	P10327	1.833	2	P11106	4.339			NAN
2/20/2014 17:00	1134	1	P10327	2.569			4.057			NAN
2/20/2014 18:00	1135	1	P10327	2.428	2	P11106	1.976			5
2/20/2014 19:00	1136	1	P10327	0.472	2	P11106	1.549			NAN
2/20/2014 20:00	1137	1	P10327	1.45	2	P11106	3.986			NAN
2/20/2014 21:00	1138	1	P10327	1.508	2	P11106	3.882			NAN
2/20/2014 22:00	1139	1	P10327	3.531			4.738			0
2/20/2014 23:00	1140	1	P10327	2.994	2	P11106	5.091			NAN
2/21/2014 0:00	1141	1	P10327	2.006	2	P11106	4.971			NAN
2/21/2014 1:00	1142	1	P10327	2.606	2	P11106	4.436			6
2/21/2014 2:00	1143	1	P10327	1.889	2	P11106	2.333			NAN
2/21/2014 3:00	1144	1	P10327	2.161			2.227			NAN
2/21/2014 4:00	1145	1	P10327	2.378	2	P11106	2.569			NAN
2/21/2014 5:00	1146	1	P10327	0.833			1.571			NAN
2/21/2014 6:00	1147	1	P10327	0.05	2	P11106	0.625			NAN
2/21/2014 7:00	1148	1	P10327	1.339	2	P11106	0.769			NAN
2/21/2014 8:00	1149	1	P10327	0.444	2	P11106	0.378			NAN
2/21/2014 9:00	1150	1	P10327	5.372	2	P11106	0.79			NAN
2/21/2014 10:00	1151	1	P10327	0.444	2	P11106	0.832			NAN
2/21/2014 11:00	1152	1	P10327	0.794	2	P11106	1.862			NAN
2/21/2014 12:00	1153	1	P10327	1.028			2.969			NAN
2/21/2014 13:00	1154	1	P10327	3.561	2	P11106	3.66			NAN
2/21/2014 14:00	1155	1	P10327	3.55	2	P11106	2.818			NAN
2/21/2014 15:00	1156	1	P10327	5.589			3.457			NAN
2/21/2014 16:00	1157	1	P10327	12.86	2	P11106	2.576			NAN
2/21/2014 17:00	1158	1	P10327	15.5	2	P11106	2.794			NAN
2/21/2014 18:00	1159	1	P10327	0.733	2	P11106	2.747			NAN
2/21/2014 19:00	1160	1	P10327	1.156	2	P11106	2.175			NAN
2/21/2014 20:00	1161	1	P10327	1.683	2	P11106	3.832			NAN

Real Time Total Suspended Particulate Monitoring (TSP)

60-Minute Averages

February 2014

(ES1 - ES2 - ES3)

TIMESTAMP	RECORD	ID(1)	SN(1)	TSP_ES1	ID(2)	SN(2)	TSP_ES2	ID(3)	SN(3)	TSP_ES3
TS	RN			mg/M^3			mg/M^3			mg/M^3
		Smp	Smp	Avg	Smp	Smp	Avg	Smp	Smp	Avg
2/21/2014 21:00	1162	1	P10327	0.444	2	P11106	2.643			NAN
2/21/2014 22:00	1163	1	P10327	1.728	2	P11106	2.594			NAN
2/21/2014 23:00	1164	1	P10327	2.367			3.314			NAN
2/22/2014 0:00	1165	1	P10327	1.939	2	P11106	4.731			NAN
2/22/2014 1:00	1166	1	P10327	7.806	2	P11106	6.11			NAN
2/22/2014 2:00	1167	1	P10327	3.872	2	P11106	5.467			NAN
2/22/2014 3:00	1168	1	P10327	3.428	2	P11106	5.755			NAN
2/22/2014 4:00	1169	1	P10327	3.8			5.657			NAN
2/22/2014 5:00	1170	1	P10327	5.778	2	P11106	5.757			NAN
2/22/2014 6:00	1171	1	P10327	2.833			5.663			NAN
2/22/2014 7:00	1172	1	P10327	2.244	2	P11106	3.316			7.1
2/22/2014 8:00	1173	1	P10327	4.811			5.07			NAN
2/22/2014 9:00	1174	1	P10327	2.461	2	P11106	3.165			NAN
2/22/2014 10:00	1175	1	P10327	3.55	2	P11106	4.424			NAN
2/22/2014 11:00	1176	1	P10327	4.633			4.859			NAN
2/22/2014 12:00	1177	1	P10327	3.744	2	P11106	3.815			NAN
2/22/2014 13:00	1178	1	P10327	3.75			4.485			NAN
2/22/2014 14:00	1179	1	P10327	3.422			4.588			NAN
2/22/2014 15:00	1180	1	P10327	4.1	2	P11106	3.415			NAN
2/22/2014 16:00	1181	1	P10327	2.922	2	P11106	3.144			NAN
2/22/2014 17:00	1182	1	P10327	2.361	2	P11106	2.64			NAN
2/22/2014 18:00	1183	1	P10327	2.95	2	P11106	3.447			NAN
2/22/2014 19:00	1184	1	P10327	2.906	2	P11106	2.833			NAN
2/22/2014 20:00	1185	1	P10327	2.706			2.735			NAN
2/22/2014 21:00	1186	1	P10327	3.533	2	P11106	4.615			NAN
2/22/2014 22:00	1187	1	P10327	3.311	2	P11106	4.394			NAN
2/22/2014 23:00	1188	1	P10327	1.956	2	P11106	3.066			NAN
2/23/2014 0:00	1189	1	P10327	0.978	2	P11106	3			6
2/23/2014 1:00	1190	1	P10327	1.378	2	P11106	4.314			NAN
2/23/2014 2:00	1191	1	P10327	3.911			4.49			NAN
2/23/2014 3:00	1192	1	P10327	4.15	2	P11106	4.245			NAN
2/23/2014 4:00	1193	1	P10327	1.539	2	P11106	4.562			NAN
2/23/2014 5:00	1194	1	P10327	4.25	2	P11106	4.881			NAN
2/23/2014 6:00	1195	1	P10327	2.939	2	P11106	3.147			NAN
2/23/2014 7:00	1196	1	P10327	2.267	2	P11106	2.089			NAN
2/23/2014 8:00	1197	1	P10327	2.439	2	P11106	2.25			NAN
2/23/2014 9:00	1198	1	P10327	2.928			2.155			NAN
2/23/2014 10:00	1199	1	P10327	3.3	2	P11106	2.929			NAN
2/23/2014 11:00	1200	1	P10327	3.272	2	P11106	3.525			NAN
2/23/2014 12:00	1201	1	P10327	1.972			4.102			NAN
2/23/2014 13:00	1202	1	P10327	3.25	2	P11106	3.455			NAN
2/23/2014 14:00	1203	1	P10327	3.011	2	P11106	3.172			NAN
2/23/2014 15:00	1204	1	P10327	2.933	2	P11106	4.539			NAN
2/23/2014 16:00	1205	1	P10327	2.856	2	P11106	3.687			NAN
2/23/2014 17:00	1206	1	P10327	0.683	2	P11106	1.495			NAN
2/23/2014 18:00	1207	1	P10327	1.006			2.091			NAN
2/23/2014 19:00	1208	1	P10327	0.3	2	P11106	1.735			NAN
2/23/2014 20:00	1209	1	P10327	0.844	2	P11106	1.485			NAN
2/23/2014 21:00	1210	1	P10327	0.122			0.471			NAN
2/23/2014 22:00	1211	1	P10327	0			0.065			NAN

Real Time Total Suspended Particulate Monitoring (TSP)

60-Minute Averages

February 2014

(ES1 - ES2 - ES3)

TIMESTAMP	RECORD	ID(1)	SN(1)	TSP_ES1	ID(2)	SN(2)	TSP_ES2	ID(3)	SN(3)	TSP_ES3
TS	RN			mg/M^3			mg/M^3			mg/M^3
		Smp	Smp	Avg	Smp	Smp	Avg	Smp	Smp	Avg
2/23/2014 23:00	1212	1	P10327	0.217	2	P11106	0			NAN
2/24/2014 0:00	1213	1	P10327	0.283			0.189			NAN
2/24/2014 1:00	1214	1	P10327	0.167	2	P11106	0			1
2/24/2014 2:00	1215	1	P10327	0.017			0			NAN
2/24/2014 3:00	1216	1	P10327	0	2	P11106	0			NAN
2/24/2014 4:00	1217	1	P10327	0.033	2	P11106	0.082			NAN
2/24/2014 5:00	1218	1	P10327	0.217			0			NAN
2/24/2014 6:00	1219	1	P10327	0.05	2	P11106	0			2
2/24/2014 7:00	1220	1	P10327	0.117	2	P11106	0.108			NAN
2/24/2014 8:00	1221	1	P10327	0.45	2	P11106	0.021			1
2/24/2014 9:00	1222	1	P10327	0.317	2	P11106	0			NAN
2/24/2014 10:00	1223	1	P10327	0.533			0.045			NAN
2/24/2014 11:00	1224	1	P10327	0.383	2	P11106	0.476			NAN
2/24/2014 12:00	1225	1	P10327	0.528	2	P11106	0.313			NAN
2/24/2014 13:00	1226	1	P10327	0.122	2	P11106	0.626			2.8
2/24/2014 14:00	1227	1	P10327	0.017	2	P11106	0.602			NAN
2/24/2014 15:00	1228	1	P10327	0.044	2	P11106	0.74			NAN
2/24/2014 16:00	1229	1	P10327	0.189			0.284			NAN
2/24/2014 17:00	1230	1	P10327	0.183	2	P11106	0.118			NAN
2/24/2014 18:00	1231	1	P10327	0.2	2	P11106	0.181			NAN
2/24/2014 19:00	1232	1	P10327	0.15	2	P11106	0.208			NAN
2/24/2014 20:00	1233	1	P10327	0.1	2	P11106	0.065			2
2/24/2014 21:00	1234	1	P10327	0.1			0.163			2.125
2/24/2014 22:00	1235	1	P10327	0.167	2	P11106	0.178			0
2/24/2014 23:00	1236	1	P10327	0			0.227			NAN
2/25/2014 0:00	1237	1	P10327	0.167	2	P11106	0.094			NAN
2/25/2014 1:00	1238	1	P10327	0	2	P11106	0.031			NAN
2/25/2014 2:00	1239	1	P10327	0.05			0.021			NAN
2/25/2014 3:00	1240	1	P10327	0.3	2	P11106	0.469			NAN
2/25/2014 4:00	1241	1	P10327	0.233	2	P11106	0.112			NAN
2/25/2014 5:00	1242	1	P10327	0.817	2	P11106	0.087			NAN
2/25/2014 6:00	1243	1	P10327	0.967	2	P11106	0.937			NAN
2/25/2014 7:00	1244	1	P10327	0.667	2	P11106	1.347			NAN
2/25/2014 8:00	1245	1	P10327	0.45	2	P11106	1.011			3
2/25/2014 9:00	1246	1	P10327	1.367	2	P11106	0.959			NAN
2/25/2014 10:00	1247	1	P10327	2.217	2	P11106	1.302			NAN
2/25/2014 11:00	1248	1	P10327	1.244	2	P11106	1.155			NAN
2/25/2014 12:00	1249	1	P10327	0.367	2	P11106	2.061			NAN
2/25/2014 13:00	1250	1	P10327	1.383	2	P11106	1.953			4
2/25/2014 14:00	1251	1	P10327	1.622	2	P11106	1.149			NAN
2/25/2014 15:00	1252	1	P10327	1.889	2	P11106	2.187			NAN
2/25/2014 16:00	1253	1	P10327	0.556	2	P11106	1.269			NAN
2/25/2014 17:00	1254	1	P10327	0.65			1.414			NAN
2/25/2014 18:00	1255	1	P10327	0.839	2	P11106	1.011			NAN
2/25/2014 19:00	1256	1	P10327	0.861	2	P11106	1.61			NAN
2/25/2014 20:00	1257	1	P10327	1.122	2	P11106	1.35			NAN
2/25/2014 21:00	1258	1	P10327	1.178	2	P11106	1.867			NAN
2/25/2014 22:00	1259	1	P10327	1.289			1.859			NAN
2/25/2014 23:00	1260	1	P10327	1.306	2	P11106	2.314			NAN
2/26/2014 0:00	1261	1	P10327	0.411	2	P11106	1.505			NAN

Real Time Total Suspended Particulate Monitoring (TSP)

60-Minute Averages

February 2014

(ES1 - ES2 - ES3)

TIMESTAMP	RECORD	ID(1)	SN(1)	TSP_ES1	ID(2)	SN(2)	TSP_ES2	ID(3)	SN(3)	TSP_ES3
TS	RN			mg/M^3			mg/M^3			mg/M^3
		Smp	Smp	Avg	Smp	Smp	Avg	Smp	Smp	Avg
2/26/2014 1:00	1262	1	P10327	0.478	2	P11106	1.596			NAN
2/26/2014 2:00	1263	1	P10327	1.378	2	P11106	1.143			NAN
2/26/2014 3:00	1264	1	P10327	1.611	2	P11106	3.021			NAN
2/26/2014 4:00	1265	1	P10327	0.478	2	P11106	2.218			NAN
2/26/2014 5:00	1266	1	P10327	0.306	2	P11106	2.255			NAN
2/26/2014 6:00	1267	1	P10327	2.072	2	P11106	1.558			NAN
2/26/2014 7:00	1268	1	P10327	1.606	2	P11106	2.01			NAN
2/26/2014 8:00	1269	1	P10327	4.111	2	P11106	1.704			3.889
2/26/2014 9:00	1270	1	P10327	3.689	2	P11106	3.264			5
2/26/2014 10:00	1271	1	P10327	2.683	2	P11106	2.792			1
2/26/2014 11:00	1272	1	P10327	4.322	2	P11106	4.934			NAN
2/26/2014 12:00	1273	1	P10327	2.872			4.598			NAN
2/26/2014 13:00	1274	1	P10327	2.183	2	P11106	3.143			NAN
2/26/2014 14:00	1275	1	P10327	2.244	2	P11106	3.901			NAN
2/26/2014 15:00	1276	1	P10327	4.733	2	P11106	3.058			NAN
2/26/2014 16:00	1277	1	P10327	1.267	2	P11106	2.048			NAN
2/26/2014 17:00	1278	1	P10327	1.233	2	P11106	1.704			NAN
2/26/2014 18:00	1279	1	P10327	2.283	2	P11106	3.51			NAN
2/26/2014 19:00	1280	1	P10327	1.111	2	P11106	2.69			NAN
2/26/2014 20:00	1281	1	P10327	4.106			2.078			NAN
2/26/2014 21:00	1282	1	P10327	2.3			3.133			NAN
2/26/2014 22:00	1283	1	P10327	2.239	2	P11106	3.49			NAN
2/26/2014 23:00	1284	1	P10327	1.967	2	P11106	1.835			NAN
2/27/2014 0:00	1285	1	P10327	1.872	2	P11106	2.552			NAN
2/27/2014 1:00	1286	1	P10327	1	2	P11106	1.843			NAN
2/27/2014 2:00	1287	1	P10327	2.111	2	P11106	2.208			NAN
2/27/2014 3:00	1288	1	P10327	2.567	2	P11106	3.36			NAN
2/27/2014 4:00	1289	1	P10327	1.111	2	P11106	3.063			NAN
2/27/2014 5:00	1290	1	P10327	2.128	2	P11106	2.912			NAN
2/27/2014 6:00	1291	1	P10327	1.894	2	P11106	2.519			NAN
2/27/2014 7:00	1292	1	P10327	2.083	2	P11106	3.92			NAN
2/27/2014 8:00	1293	1	P10327	3.039	2	P11106	4.657			NAN
2/27/2014 9:00	1294	1	P10327	4.256	2	P11106	7.107			NAN
2/27/2014 10:00	1295	1	P10327	6.322	2	P11106	7.363			NAN
2/27/2014 11:00	1296	1	P10327	4.5	2	P11106	6.853			NAN
2/27/2014 12:00	1297	1	P10327	5.211	2	P11106	5.818			NAN
2/27/2014 13:00	1298	1	P10327	5.667	2	P11106	7.037			NAN
2/27/2014 14:00	1299	1	P10327	5.878	2	P11106	5.66			NAN
2/27/2014 15:00	1300	1	P10327	4.539	2	P11106	5.121			NAN
2/27/2014 16:00	1301	1	P10327	3.85	2	P11106	4.23			NAN
2/27/2014 17:00	1302	1	P10327	3.344	2	P11106	4.291			NAN
2/27/2014 18:00	1303	1	P10327	1.761	2	P11106	4.171			NAN
2/27/2014 19:00	1304	1	P10327	2.722			5			NAN
2/27/2014 20:00	1305	1	P10327	7.828	2	P11106	7.443			NAN
2/27/2014 21:00	1306	1	P10327	3.044	2	P11106	4.69			NAN
2/27/2014 22:00	1307	1	P10327	1.644	2	P11106	3.719			NAN
2/27/2014 23:00	1308	1	P10327	2.183	2	P11106	2.93			NAN
2/28/2014 0:00	1309	1	P10327	2.628	2	P11106	2.72			NAN
2/28/2014 1:00	1310	1	P10327	3.583	2	P11106	3.388			NAN
2/28/2014 2:00	1311	1	P10327	3.05	2	P11106	3.933			NAN

Real Time Total Suspended Particulate Monitoring (TSP)

60-Minute Averages

February 2014

(ES1 - ES2 - ES3)

TIMESTAMP	RECORD	ID(1)	SN(1)	TSP_ES1	ID(2)	SN(2)	TSP_ES2	ID(3)	SN(3)	TSP_ES3
TS	RN			mg/M ³			mg/M ³			mg/M ³
		Smp	Smp	Avg	Smp	Smp	Avg	Smp	Smp	Avg
2/28/2014 3:00	1312	1	P10327	4.928			4.019			NAN
2/28/2014 4:00	1313	1	P10327	3.589			4.32			NAN
2/28/2014 5:00	1314	1	P10327	4.028	2	P11106	5.235			NAN
2/28/2014 6:00	1315	1	P10327	6.433			5.646			NAN
2/28/2014 7:00	1316	1	P10327	5.622	2	P11106	5.495			NAN
2/28/2014 8:00	1317	1	P10327	6.856	2	P11106	6.51			NAN
2/28/2014 10:00	1318	1	P10327	17.54	2	P11106	7.198			0
2/28/2014 11:00	1319	1	P10327	7.306	2	P11106	6.574			NAN
2/28/2014 12:00	1320	1	P10327	6.425	2	P11106	7.248			NAN
2/28/2014 13:00	1321	1	P10327	4.642	2	P11106	4.777			NAN
2/28/2014 14:00	1322	1	P10327	12.61	2	P11106	4.667			NAN
2/28/2014 15:00	1323	1	P10327	14.48	2	P11106	3.382			0
2/28/2014 16:00	1324	1	P10327	8.15			4.315			NAN
2/28/2014 17:00	1325	1	P10327	2.75	2	P11106	1.16			NAN
2/28/2014 18:00	1326	1	P10327	1.217	2	P11106	2.622			NAN
2/28/2014 19:00	1327	1	P10327	1.867	2	P11106	2.646			NAN
2/28/2014 20:00	1328	1	P10327	2.467	2	P11106	2.532			NAN
2/28/2014 21:00	1329	1	P10327	2.65	2	P11106	2.425			NAN
2/28/2014 22:00	1330	1	P10327	2.833	2	P11106	3.078			NAN
2/28/2014 23:00	1331	1	P10327	2.7	2	P11106	2.149			NAN



POINT RUSTON, LLC
5219 N. SHIRLEY ST. #100
RUSTON, WA 98407

O: 253.752.2185
F: 253.752.7083

MEMORANDUM

DATE: February 8, 2014
TO: Loren Cohen
SUBJECT: Real-Time Air Monitoring – Off Site Dust Report – Non Exceedance (02/07/14)

On February 7, 2014 at about 9:20 AM Point Ruston workers were cutting brick pavers in the outer landscape strip on the south side of the Grand Ave. roundabout. Witnesses said the task generated a visible dust plume that climbed straight upward. The work was being conducted approximately 400 feet SSE from the TSP monitor (ES1) located at the south corner of Lot #1 (Main Street & Island View Corridor). See Exhibit A attached.

Recorded wind conditions at the time:

9:00 – 9:21 Southerly averaging about 2 MPH
9:22 – 9:29 Southeasterly at 1.3 MPH
9:30 – 9:56 Calm

ES1 Real Time dust monitor recorded 5-minute average TSP as follows:

3:00 – 9:20 5 $\mu\text{g}/\text{m}^3$ average
9:25 20 $\mu\text{g}/\text{m}^3$ average
9:30 238 $\mu\text{g}/\text{m}^3$ average
9:35 – 10:30 7 $\mu\text{g}/\text{m}^3$ average

This short TSP spike resulted in the 60-minute average jumping from 7 $\mu\text{g}/\text{m}^3$ to over 27 $\mu\text{g}/\text{m}^3$ between 9:30 and 10:30 AM.

Use of dust control (water spray) was not utilized due to freezing conditions. Normal site accessible water supplies were not accessible. Using water for dust control could have resulted in ice on the roadway causing hazardous conditions for both traffic and workers.

After reviewing the variables occurring at the time of the readings, the higher than usual TSP levels during this time period were likely the result of dust generated from cutting the brick pavers. Although the dust was observed climbing upward at the source area, it likely dispersed and settled to the ground around the area south of the activity. Not visible to the eye, but visible to the dust monitor. This incident confirms the importance of limiting and controlling potential dust generating activities on or around the job site.

Tim Rusher
Health & Safety Officer
Point Ruston, LLC

NOTE: Troubleshooting spotty readings for ES3 location.

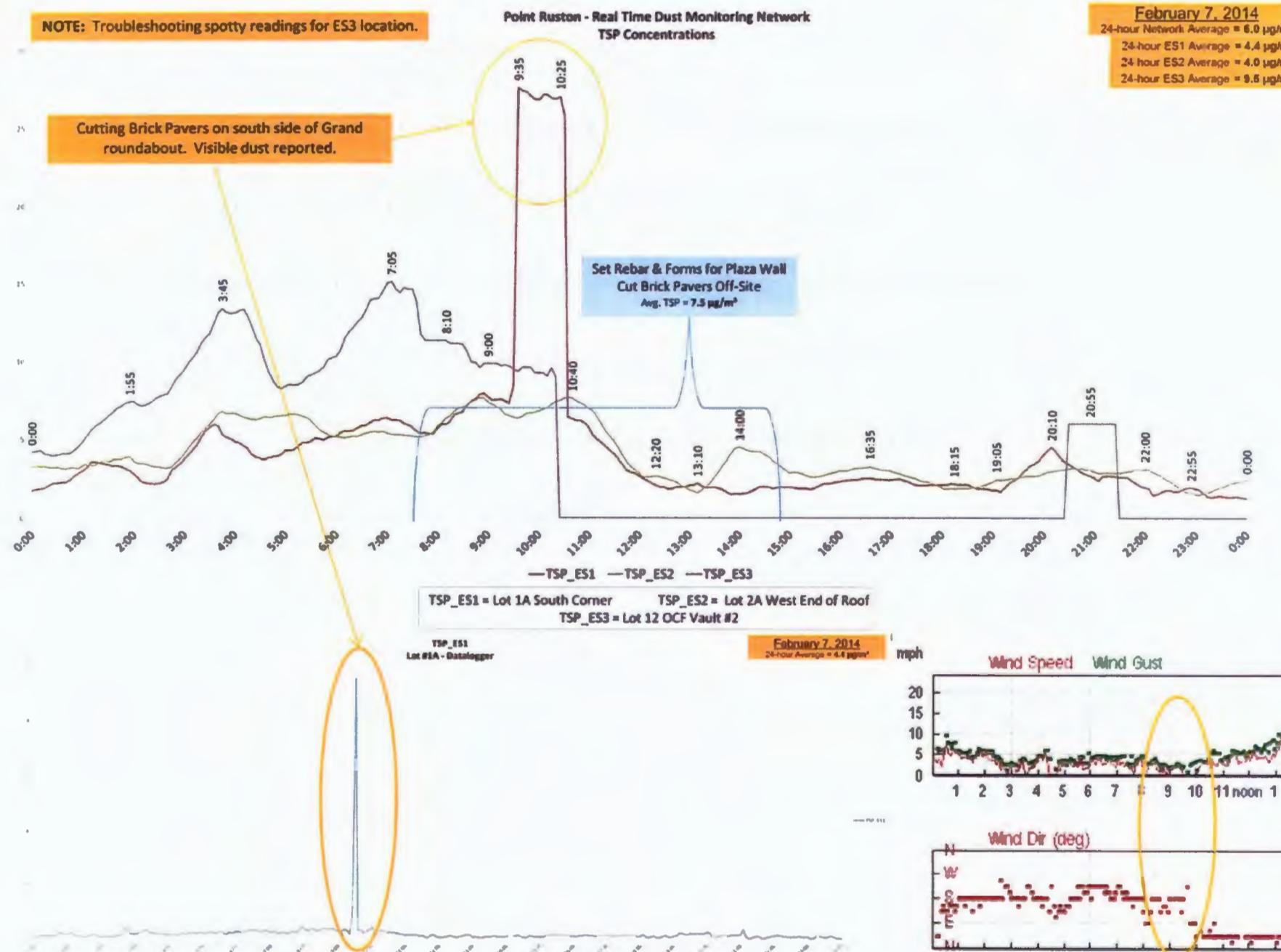


EXHIBIT A(2)



EXHIBIT A(1)

Monthly Report 213, February 2014
Operable Unit 02
Asarco Tacoma Smelter Site

METHANE

MONITORING

DATA

Reference	Date	Description
Bldg 2B	02/04/14	Gas Monitoring Data Form / Calibration Worksheet
Bldg 2B	February 2014	Methane Monitoring – DATA LOG

Gas Monitoring Data Form / Calibration Worksheet

Project Name: Building 2B

Date of Sampling: 2/4/14

Name of Sample Collector: Pat Wilder

Gas Meter Information

Manufacturer:	Industrial Scientific	Model:	M40 / SP40	Serial Number:	0806049-984
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Factory/Service Center Calibration Date of Gas Monitor:	November 1, 2011	Pump Rate of Gas Meter:	.5 SCFH (0.25 LPM)
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Calibration Canister Information

Canister I.D.	Lot: MAM 46J-4	Cyl:	Calibration Gas:	O ₂ , LEL, CO, H ₂ S, N	Canister Exp.:	2013 6/14/14
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PRE-SAMPLE CALIBRATION:		Date: <u>2/4/14</u>		Time: <u>9:13</u>					
Sensor SN	Sensor Type	Gas Type	Span Gas	Span Reserve	Passed/Failed	Alarm Low	Alarm High	Alarm TWA	Alarm STEL
806862459	Combustible-LEL	Methane	50	58	P				
805823354	Hydrogen Sulfide	Hydrogen Sulfide	25	53	P				
180339703081	Oxygen	Oxygen	19	37/30rl	P				

SAMPLING RECORD:

Temperature:	<u>35.1</u>	Barometric Pressure:	<u>30.30</u>	Ground Conditions:	<u>wet</u>
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Precipitation:	<u>0.0</u>	Tidal Conditions:	<u>High</u>
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Wind Speed:	<u>6.3</u>	Direction:	<u>N</u>	Other Relevant Conditions:	<u>overcast</u>
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Location Well ID#	Sample Tube Purge (D/N)	Start Time	Stop Time	Initial % LEL	Stabilized % LEL	% CH ₄ By Volume	% O ₂	H ₂ S (ppm)	Notes
2BW001		9:41	9:53	0	0	0	22.0	0	
2BW002		9:55	10:07	0	0	0	22.2	0	
2BW003		10:09	10:20	0	0	0	22.1	0	
2BW004		10:23	10:34	0	0	0	22.1	0	

Certification:

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct.

Pat Wilder
SIGNATURE:

2/9/14
DATE:

METHANE MONITORING - DATA LOG

Point Ruston, LLC

Building 2B

Period	Well	Date	Temperature °C	Hydrogen Sulfide			Oxygen Reading	Combustible LEL (Methane) Reading
	Location	Time		Reading	TWA	STEL		
1	Calibrate	2/4/2014 9:05	18	0	0	0	20.9	0
2	Calibrate	2/4/2014 9:07	19	0	0	0	20.9	0
3	2BW001	2/4/2014 9:33	17	0	0	0	21.1	0
3	2BW001	2/4/2014 9:34	18	0	0	0	21.4	0
3	2BW001	2/4/2014 9:35	18	0	0	0	21.3	0
3	2BW001	2/4/2014 9:36	17	0	0	0	21.3	0
3	2BW001	2/4/2014 9:37	16	0	0	0	21.2	0
3	2BW001	2/4/2014 9:38	15	0	0	0	21.3	0
3	2BW001	2/4/2014 9:39	14	0	0	0	21.3	0
3	2BW001	2/4/2014 9:40	13	0	0	0	21.3	0
3	2BW001	2/4/2014 9:41	13	0	0	0	21.6	0
3	2BW001	2/4/2014 9:42	12	0	0	0	21.8	0
3	2BW001	2/4/2014 9:43	11	0	0	0	21.9	0
3	2BW001	2/4/2014 9:44	10	0	0	0	21.9	0
4	2BW002	2/4/2014 9:47	8	0	0	0	22.2	0
4	2BW002	2/4/2014 9:48	8	0	0	0	22.1	0
4	2BW002	2/4/2014 9:49	8	0	0	0	22.1	0
4	2BW002	2/4/2014 9:50	8	0	0	0	22.1	0
4	2BW002	2/4/2014 9:51	7	0	0	0	22.1	0
4	2BW002	2/4/2014 9:52	7	0	0	0	22.2	0
4	2BW002	2/4/2014 9:53	7	0	0	0	22.2	0
4	2BW002	2/4/2014 9:54	7	0	0	0	22.2	0
4	2BW002	2/4/2014 9:55	6	0	0	0	22.2	0
4	2BW002	2/4/2014 9:56	6	0	0	0	22.2	0
4	2BW002	2/4/2014 9:57	6	0	0	0	22.2	0
4	2BW002	2/4/2014 9:58	6	0	0	0	22.2	0
5	2BW003	2/4/2014 10:01	5	0	0	0	22.4	0
5	2BW003	2/4/2014 10:02	5	0	0	0	22.1	0
5	2BW003	2/4/2014 10:03	5	0	0	0	22.2	0
5	2BW003	2/4/2014 10:04	5	0	0	0	22.1	0
5	2BW003	2/4/2014 10:05	5	0	0	0	22.1	0
5	2BW003	2/4/2014 10:06	5	0	0	0	22.1	0
5	2BW003	2/4/2014 10:07	5	0	0	0	22.1	0
5	2BW003	2/4/2014 10:08	5	0	0	0	22.1	0
5	2BW003	2/4/2014 10:09	4	0	0	0	22.1	0
5	2BW003	2/4/2014 10:10	4	0	0	0	22.1	0
5	2BW003	2/4/2014 10:11	4	0	0	0	22.1	0
5	2BW003	2/4/2014 10:12	4	0	0	0	22.1	0
6	2BW004	2/4/2014 10:15	4	0	0	0	22.3	0
6	2BW004	2/4/2014 10:16	4	0	0	0	22.2	0
6	2BW004	2/4/2014 10:17	4	0	0	0	22.2	0
6	2BW004	2/4/2014 10:18	4	0	0	0	22.2	0
6	2BW004	2/4/2014 10:19	4	0	0	0	22.1	0

Month of February 2014

METHANE MONITORING - DATA LOG

Point Ruston, LLC

Building 2B

Period	Well Location	Date Time	Temperature °C	Hydrogen Sulfide			Oxygen Reading	Combustible LEL (Methane) Reading
				Reading	TWA	STEL		
6	2BW004	2/4/2014 10:20	4	0	0	0	22.2	0
6	2BW004	2/4/2014 10:21	4	0	0	0	22.1	0
6	2BW004	2/4/2014 10:22	4	0	0	0	22.1	0
6	2BW004	2/4/2014 10:23	4	0	0	0	22.1	0
6	2BW004	2/4/2014 10:24	4	0	0	0	22.1	0
6	2BW004	2/4/2014 10:25	4	0	0	0	22.1	0
6	2BW004	2/4/2014 10:26	4	0	0	0	22.1	0

Month of February 2014

Monthly Report 213, February 2014
Operable Unit 02
Asarco Tacoma Smelter Site

MISCELLANEOUS
TEST
SAMPLING
DATA
(SOIL – DEBRIS – WATER – ETC.)



POINT RUSTON, LLC
5219 N. SHIRLEY ST. #100
RUSTON, WA 98407

O: 253.752.2185
F: 253.752.7083

MEMORANDUM

February 19, 2014

Subject: Stage 1 – Phase 2 Confirmation Sampling

RE: Sample No. LOT1SWL-FYI-01-A1

On February 19, 2014 Point Ruston obtained a 5-point composite sample from final cap material along the edge of the recently installed multilayer cap bordering Lot #1. Recent heavy rains caused storm water levels to breach the sediment infiltration pond (BMP C241), and interceptor swale (BMP C200). Storm water from the swale ultimately contacted clean fill material above the liner system. The sample was analyzed for arsenic (As) and lead (Pb). See the attached sheet for sample locations and results (Exhibit A).

Tim Rusher

Point Ruston

In-House (XRF)

Stage 1 - Phase 2 Liner Edge - Lot #1

Reading No. 5: 5-point composite sample along the edge of the liner extension from the Waterwalk to Lot #1

Sample Date (or) Reading No.	Sample/Reading Time	Type	Units	Sample Number	Site Code	Sample Depth	Subunit	Sample Type	Pb	As
5	2/19/2014 12:05	BULK	ppm	LOT1SWL-FYI-01-A1	LOT1SWL	A	1		21.93	19.33



EXHIBIT - A



POINT RUSTON, LLC
5219 N. SHIRLEY ST. #100
RUSTON, WA 99407

O: 253.752.2185
F: 253.752.7083

MEMORANDUM

February 25, 2014

Subject: Haul Road Confirmation Sampling – Grand Ave & Main Street

RE: Sample No.: HROAD-FYI-05-A1
HROAD-FYI-06-A1
HROAD-FYI-07-A1
HROAD-FYI-08-A1

On February 25, 2014 Point Ruston obtained four, 5-point composite samples from the Grand Ave and Main Street haul roads after establishing and utilizing a contamination reduction zone (CRZ) as per the Phase 2, Stage 1 CMP. The samples were analyzed for arsenic (As) and lead (Pb). See the attached sheet for sample locations and results (Exhibit A). Pre-CRZ sampling was conducted on 1/3/14. Results were virtually unchanged after seven weeks of work activity.

Tim Rusher

Point Ruston

In-House (XRF)**Phase 2 - Lot #1 Haul Roads**

Reading No. 4: 5-point composite sample from the Grand Ave. haul road between Main Street and the CRZ at Lot #1

Reading No. 5: 5-point composite sample from the Main Street haul road between Grand Ave & Cascade Ave.

Reading No. 6: 5-point composite sample from the Grand Ave. haul road between Main Street and Ruston Way.

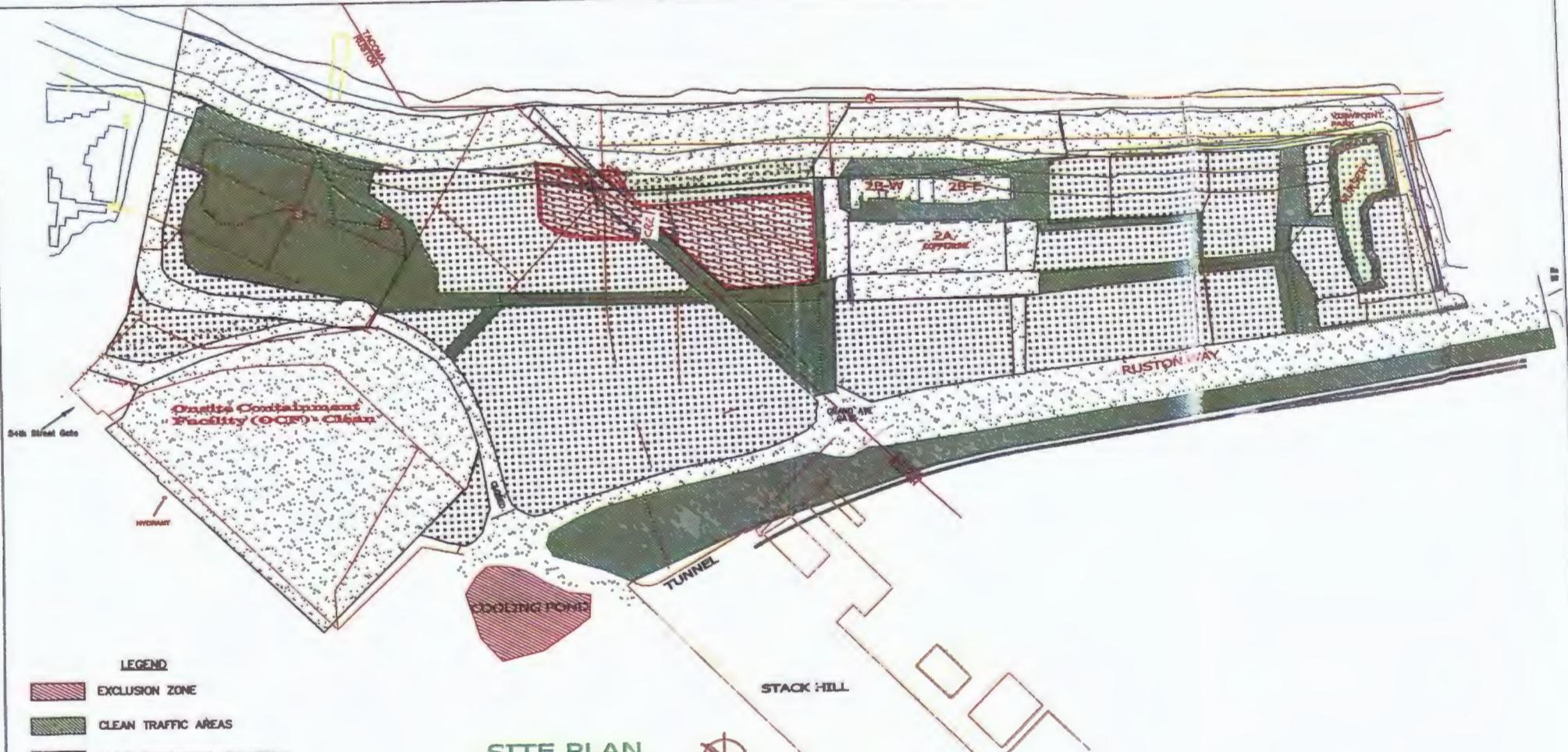
Reading No. 7: 5-point composite sample from the Main Street haul road between Grand Ave & the Island View Corridor at Lot #1

Sample Date (or) Reading No.	Sample/Reading Time	Type	Units	Sample Number	Site Code	Sample Depth	Subunit	Sample Type	Pb	As
4	2/25/2014 11:12	BULK	ppm	HROAD-FYI-05-A1	HROAD	A	5		21.59	11.35
5	2/25/2014 12:56	BULK	ppm	HROAD-FYI-06-A1	HROAD	A	6		19.13	6.98
6	2/25/2014 14:09	BULK	ppm	HROAD-FYI-07-A1	HROAD	A	7		25.88	9.70
7	2/25/2014 15:21	BULK	ppm	HROAD-FYI-08-A1	HROAD	A	8		11.66	13.81
									Average	19.57
										10.46



Monthly Report 213, February 2014
Operable Unit 02
Asarco Tacoma Smelter Site

MISCELLANEOUS INFORMATION



2-15-14

REMEDIATION SITE PLAN
ZONE LOCATIONS

POINT RUSTON, LLC
5219 N SHIRLEY ST, STE 100
RUSTON WA 98407



DATE: 03-02-2012

SCALE: 1"=20'0"

A

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POINT RUSTON, LLC
5219 N. SHIRLEY ST. #100
RUSTON, WA 98407

O: 253.752.2185
F: 253.752.7083

MEMORANDUM

February 21, 2014

TO: Loren Cohen
SUBJECT: Petroleum Spill – Main Office Parking Lot

At about 9:45 AM I notice an apparent oil or fuel spill in the office parking lot. Town of Ruston workers Steve Taylor and Ray (Johnson?) were in the process of cleaning up the spill which apparently came from the Town's white garbage truck (license: 52990D). There were plastic garbage can lids under the front of the truck to catch leaking material. There was absorbent material heavily distributed on the asphalt in front of the truck, around a nearby catch basin, and spread down the alley towards 53rd Street. It looked like there were several hydraulic hoses under the front of the truck that may have been the source of the leak. The spill appeared to have flowed over the nearby catch basin and into the alley headed toward 53rd Street. Much of the spilled material may have entered the catch basin located about six (6) feet downhill from the truck. I believe this catch basin is designed as an oil separator, but it is unknown how much entered the basin, nor how much was spilled. I was able to look through the catch basin grate and there appeared to be a thick oily substance on the surface.

There was an oily sheen in several areas of the parking lot where it appeared cars had tracked through the spill spreading it to nearby adjacent areas.

Later Steve and Ray used a sump pump to pump material out of the catch basin. It appeared they pumped it into the back of a second garbage truck. Overall the spill occurred around 9:00 AM and cleanup efforts were ongoing, off & on, until after 3:15 PM.

Tim Rusher





02/21/2014



02/21/2014



02/21/2014



02/21/2014



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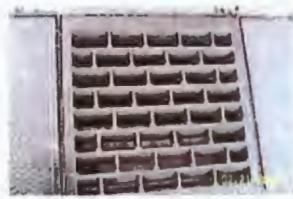
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